



Commonwealth of Massachusetts Department of Fish & Game

Mary B. Griffin, Commissioner

## DIVISION of ECOLOGICAL RESTORATION

Tim Purinton, Director

### Ebb&Flow

*An electronic newsletter from the Massachusetts Division of Ecological Restoration*

## ***Ebb&Flow #21***

***October, 2014***

***An electronic newsletter from the Mass. Department of Fish and Game's Division of Ecological Restoration (DER)***

<http://www.mass.gov/der>

[Welcome Letter](#)

[Feature Article](#)

[DER News and Project Updates](#)

[Grant, Prize, Contest, Fellowship, Award and Fundraising Opportunities](#)

[Calendar](#)

[On-line Resources](#)

[Non-Governmental On-line Resources](#)

[Publications, etc.](#)

[Last but not Least](#)

*Greetings, restoration friends and colleagues:*

When I started working at Riverways almost a decade ago I remember hearing from colleagues about the “heartbreak at Third Herring Brook”. In 2002, the YMCA Mill Pond Dam was one of the first dam removal projects to be proposed in Massachusetts. The dam, owned by the South Shore YMCA, was in poor condition and was an excellent candidate for removal. The YMCA spent significant funds on engineering and permitting, only to be denied an Order of Conditions by the conservation commission. The dam sat for years, and eventually partially breached during a storm.

The denial by the local conservation commission was understandable given that there was no track record for dam removal in the state and the Wetlands Protection Act did not provide clear guidance considering resource alterations resulting from barrier removal. Prompted by the denial and a growing interest in dam removal from all quarters of the state, DEP and Riverways staff developed [dam removal guidance](#) that we still use today to assist in the permitting of river restoration projects.

In this edition of *Ebb&Flow*, DER project manager Nick Wildman chronicles the recent Mill Pond Dam removal effort, and we are proud to announce that by the time you read this, excavators will be carefully dismantling the dam, and Third Herring Brook will flow freely again. Thanks to our partners, especially the North and South Rivers Watershed Association and the South Shore YMCA, for their persistence and patience to see this project through.

See you on the (free flowing) water --

Sincerely,



*Tim Purinton, Director*

[> Return to top of document](#)

## Restoration in the News

- [\*Is tide turning? Salt marsh project could set a new high-water mark\*](#), appearing on the Cape Cod Times' opinion page on August 12, focused on the [Herring River Estuary Restoration Project](#) in Wellfleet. DER serves as one of the core partners on this project.
- [\*Restoring the Great Marsh\*](#), an article posted this past July on the U.S. Fish and Wildlife Service's [Conserving the Nature of the Northeast](#) blog, reported on various efforts underway by the USFWS and its partners (including DER) to restore natural hydrology and plant communities in this extensive salt marsh ecosystem, stretching from Gloucester north to New Hampshire.
- Moving inland, Ryan O'Donnell of Ipswich River Watershed Association (IRWA) [recently blogged](#) about the work IRWA, RIFLS volunteers, DER, and Trout Unlimited have been doing to [monitor flows in the upper portion of the watershed](#).
- [\*Opening up the Shawsheen\*](#), appearing in the September 8 edition of the *Lawrence Eagle Tribune*, reported on the DER-supported effort to remove dams along the lower Shawsheen River in Andover, along with complementary efforts to establish public access, greenways, and river-oriented businesses focused on the restored waterway.
- The successful removal of the Bartlett Dam on Wekepeke Brook, a tributary to the Nashua River in Lancaster, was celebrated this past June. Click [here](#) to read the EEA press release, [here](#) to read a *Worcester Telegram and Gazette* article covering the event, [here](#) to read another *T&G* article about dam removals in central Massachusetts, and [here](#) to read a *T&G* editorial on dam removal.
- The *Kingston Reporter* [recently reported on](#) a Board of Selectmen meeting at which DER's Beth Lambert made a presentation regarding the potential removal of the Main Street Dam on the Jones River.
- An [EEA press release](#) this past July, announcing several projects receiving DER support, included a grant to the Hoosic River Watershed Association, [reported on](#) in the *Berkshire Eagle*, to evaluate habitat conditions in Thunder Brook in Cheshire following the removal of a dam.
- EEA's [The Great Outdoors blog](#) includes a [recent posting from DER's Tim Purinton](#) comparing challenges and progress on wetlands protection and restoration in Louisiana and elsewhere to Massachusetts, following his trip this past summer to attend and present at the [Conference of Ecological and Ecosystem Restoration](#) in New Orleans.



## Feature Article

### Gone fishin': Success on the large scale takes action on a small scale

by [Nelson Sigelman](#)

*[The following article, originally published on 9/3/14, is reprinted here courtesy of **The Martha's Vineyard Times**. Click [here](#) to read the article on The MV Times' website.]*



*Mill Pond is placid on a summer day. Photo by Michael Cummo.*

A glimpse of Mill Pond in West Tisbury as I drove up-Island caused me to think about the effort by a determined group of residents to [restore the historic waterway](#) to a free-flowing stream. Their progress has been slow, but not nearly as difficult as that of the herring that continue to struggle to return to their natal waters each spring up and down our coast.

The offspring of those that survived the journey have by now begun their return to the sea. It is a natural cycle that man has interrupted along our coast to the detriment of a variety of species that include striped bass.

Fisheries management cannot succeed on the large scale if we do not think about the small scale, and do what we can to protect waterways – from the smallest brook to the largest river – from degradation.

Herring and white perch spawn in the lower reaches of Mill Brook, and native brook trout cling to life in the upper reaches of the stream that begins in Chilmark, passes through several artificial impoundments in West Tisbury, such as Mill Pond, and streams into Tisbury Great Pond. There is also evidence that American eels still manage to use the stream.

Last May, with assistance from the state Division of Marine Fisheries and a group of volunteers, West Tisbury [erected a fish ladder at the dam](#). How successful it is in allowing fish to navigate this obstacle remains to be determined. However, fish ladders are not a solution. They are a compromise intended to mitigate the harmful effects of a dam.

For example, in the northwest where dams help provide valuable hydroelectric power, fish ladders are used to help maintain passageways for salmon – not so successfully judging by the continued decline in salmon numbers. As a result, there is a concerted effort by conservation groups to remove as many dams as possible. Removal of the Elwha Dam in Olympic National Park, billed as the [largest dam removal project in the world](#), has led to the return of salmon for the first time in a century in that river.

The U.S. Fisheries and Wildlife Service [acknowledges the detrimental effects](#) of dams, which “can block or impede migration and have created deep pools of water that in some cases have inundated important spawning habitat or blocked access to it. Dams also change the character of rivers, creating slow-moving, warm water pools that are ideal for predators of salmon.”

The Mill Pond, which warmed to more than 80 degrees this summer, is a case in point. We have no salmon, but [we certainly have brook trout](#). That they survive is a testament to their resilience.

At one time in our nation’s history, progress was measured by how much we could extract from the environment. We erected dams on rivers and streams to pull power from the water with little thought about the consequences, which seemed minor compared to the benefits. In the last century that equation and our understanding of it began to change.

Today, the removal of unused dams attracts positive attention. In June, state and local officials celebrated the successful removal of the 84-foot long Bartlett Pond dam on Wekepeke Brook, a tributary of the North Nashua River, restoring upstream fish passage to approximately 18 miles of high-quality coldwater habitat. “With the dam’s removal, there has been an immediate return of native brook trout to the restored stretch of the river,” state Fish and Game Commissioner Mary Griffin said.

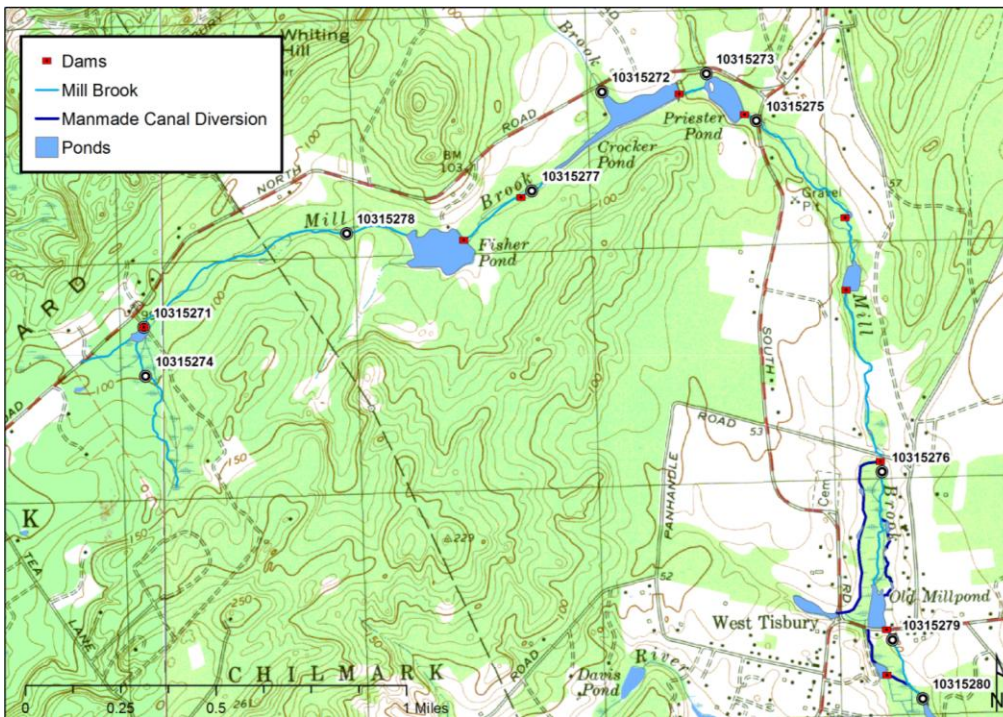
“Removing dams helps restore healthy rivers to provide clean water, reduce risks, enhance recreation opportunities, and preserve wildlife habitat,” said Wayne Klockner, State Director of the Nature Conservancy in Massachusetts, which has an office on Martha’s Vineyard and is in a position to comment on at least one Mill Brook impoundment. Earlier last spring, the state’s office of Energy and Environmental Affairs ([EEA](#)) designated eight new river and wetland restoration projects across the state as Priority Projects, which qualified them for grants and contracted technical services funded by the Division of Ecological Restoration (DER). The goal in almost every case included restoring habitat connectivity and flow to benefit fish species.

“River and wetland restoration projects improve habitat for many species of fish, such as brook trout, blueback herring, alewives, and rainbow smelt, that support recreational and commercial fisheries,” Ms. Griffin said of the designations.

-  
The list included a partnership with the Sheriff’s Meadow Foundation to restore connectivity to the headwaters of Mill Brook by removing an earthen dam on the Roth Woodlands Property in Chilmark. It is the type of small-scale project that could prove meaningful in the future.

“We wish to be the best possible stewards of the section of Mill Brook that we own,” Sheriff’s Meadow executive director Adam Moore said. “In the case of Roth Woodlands, the Mill Brook flows beneath Old Farm Road through two culverts which are too small and too high. These culverts impede fish passage and create an artificial pond in which the temperatures are too high for fish to survive. We hope to restore the stream channel by putting in a proper culvert, and we believe that this will benefit native brook trout and the brook lamprey. We are very grateful to the Commonwealth for its financial and technical assistance.”





*This map shows the various dams and impoundments that impede the flow of Mill Brook.*

The September/October issue of [American Angler](#) magazine included an article by Morgan Lyle about the mounting effort to oppose a \$5.19 billion hydroelectric project proposed by the government of Alaska. “An Alaskan proposal to dam the mighty Susitna River bucks the dam-demolishing trend in full swing from Maine to South America,” Mr. Lyle wrote.

The article described dam removal efforts in Maine and noted that the “freed Kennebec River now has the largest runs of alewives and blueback herring on the East Coast.”

Amy Kober of [American Rivers](#), a nonprofit advocacy group, is quoted in the article. “When you take a dam down and let a river flow freely, the signs of life come back quickly, from insects to fish to osprey,” she said. “More than 1,100 dams have been removed in our country. On the Kennebec and Penobscot, on rivers across the country, the web of life is being repaired. And that’s good for anglers, it’s good for communities, it’s good for all of us who benefit from clean water and healthy rivers.”

I have to think it would also be good for West Tisbury.

###

[Click [here](#) to read another article about Mill Brook, appearing in the July 2014 issue of *Martha’s Vineyard Magazine*.]

[> Return to top of document](#)

## Division of Ecological Restoration News and Project Updates

### Removal of Mill Pond Dam (on Third Herring Brook, Hanover/Norwell) to Begin Soon

By Nick Wildman, DER



*View of the former impoundment behind the breached Mill Pond Dam.*



*A 2010 storm breached the Mill Pond Dam on Third Herring Brook. This month, the breach will be widened to restore the Brook's connectivity through the site.*



After a decade of investigation, planning, and community meetings, September will finally see the removal of the Mill Pond Dam on Third Herring Brook. The Brook forms the border between Hanover and Norwell. It is owned by the South Shore YMCA and is located just downstream of South Street.

Initial plans to remove the dam fell through in 2002, and the project lay dormant until a storm in the spring of 2010 caused a large breach in the dam. The breach mostly drained the impoundment and caused erosion along the bank on the Hanover side. With a new flow path through the dam, Third Herring Brook began carving a new channel downstream, as the YMCA re-engaged partners to plan a full dam removal. The dam removal was conceived as a part of a larger project to address numerous stream barriers on Third Herring Brook, and it received Priority Project status from DER in 2012. Since then, DER and the North and South Rivers Watershed Association (NSRWA) have been working closely with the YMCA and their engineer, GZA GeoEnvironmental, to design and permit the dam removal.

In September, the YMCA selected T-Ford Company to implement the restoration design, under the direction of GZA and the project partners. The majority of the work should be completed before the end of October, with monitoring and final site improvements continuing in the spring of 2015. This project will benefit a number of fish and wildlife species that use Third Herring Brook and its tributaries. DER's RIFLS program is also working with NSRWA and the Towns to examine low flow issues in Third Herring Brook.

## **Exploring, and exploiting, Diverse Outreach Tools: Storytelling bolsters the Hoosic River Revival campaign**

*By Cindy Delpapa, DER*

Successfully implementing a restoration project is an alchemist's mix of steps. The task list includes technical components including assessment, design, permitting and developing a funding package. But there is more to pulling off a successful restoration project than working out the nuts and bolts of a project plan. Building public support for a restoration project is, arguably, as important as developing a sound design and securing adequate funding. And like design and funding, outreach and education plans need to consider the particular circumstances of each project .

Recently, DER staff had the opportunity to work with a local group, the [Hoosic River Revival](#), on an outreach and education project with a creative and fun twist. A previous ***Ebb&Flow*** article (appearing on pp.11-13 of [Ebb & Flow #17 \(October 2013\)](#)) outlined an urban river revitalization, and DER Priority Project, underway in the City of North Adams . The project, led by the Hoosic River Revival, is working to re-imagine, then rebuild, the aging flood control structures that currently encase the Hoosic and North Branch of the Hoosic Rivers flowing through the City.

Built over six decades ago, the concrete flood chutes have protected the City from floods, most recently during the aftermath of Tropical Storm Irene, when the North Branch Hoosic topped out at its highest-ever recorded flow. The chutes were a sobering sight during the flood. For many in the City, it was an introduction to the power of the river. For others it was a reminder of the destructive force they witnessed, as children, when the 'great flood' ripped through the valley, . In the first few years the Revival's vision, to rework of the jarring gash of the concrete chutes bisecting the City, was met with broad support. Not surprisingly, the idea of modifying the flood management system lost its appeal for many residents when North Adams survived Tropical Storm Irene with modest damage, while so many surrounding communities were left devastated.

The Revival met this unanticipated wrinkle with a new outreach tool. A successful application to the Berkshire Taconic Community Foundation's Environmental Education Fund, coupled with local donations, allowed the Revival to commission the creation of a story specifically about the Hoosic River, North Adams and flooding. The piece, called *Old Memories/ New Dreams*, created and performed by the award winning storyteller [Judith Black](#), acknowledged the validity of people's concerns about flooding, while introducing the possibility of a new life for the chutes and the City. The story evolved during a year-long collaboration, and included assistance from a MCLA intern, interviews with local historians, community members and river specialists, plus a healthy helping of research about the City and the Hoosic River. From this material, Ms. Black was able to craft a narrative with a solid foundation of truth, intertwined with the unique qualities, landscapes, and characteristics of North Adams.

Ms. Black built the story around three generations of mill worker descendents: from the grandparents who lived through the 1940's flood, to their grandchildren negotiating the changing fabric of North Adams. The story revolves around a grandfather and his grandson who cherish their time together fishing on the river and the grandmother who abhors the Hoosic for a reason she has never revealed. The story captures the dichotomy within the family between the younger generation embracing the river's potential, and the grandmother's childhood trauma tied to the river flood.

The stories we tell ourselves  
nourish our lives...  
who we are, where we live  
and what we care about.  
They matter!

So, the Hoosic River Revival is proud to present a one-night-only public performance by world renowned Storyteller Judith Black, winner of the prestigious Oracle Award, storytelling's most coveted prize. She has crafted an interesting, touching narrative that will capture the attention of adults and children, a story based on many hours of talking with North Adams residents and hearing their stories about our City and the Hoosic River.

Doors open 5:30pm  
Pizza and beverages 6:00 pm  
Performance begins 6:45pm  
Seating is limited, so we recommend you arrive early or reserve a place by calling 413.212.2996 or email us at: info@HoosicRiverRevival.gmail  
facebook twitter

Suggested donation:  
Adults - \$2.00  
Children 12 and under - free

World Renowned Storyteller Judith Black

Sponsored by  
HOOSIC RIVER REVIVAL  
Rebuilding a Community Presence in North Adams

Tuesday, May 20 6:45pm  
First Congregational Church, 134 Main St., North Adams, MA. Doors open 5:30pm

*Old Memories/New Dreams* debuted in May, and the premier performances elicited plenty of discussion. A discussion that will continue as the project moves forward.



# Report from the Field (and Stream): Bacterial Source Tracking in the Westfield Watershed

By Crystal Birdsall, DER Intern



*Westfield State University and DER intern Crystal Birdsall at one of the sampling locations along Moose Meadow Brook in Westfield, where water testing revealed elevated bacteria concentrations above the state standard.*

My name is Crystal Birdsall, and I am a junior at Westfield State University. This summer, I interned for the Division of Ecological Restoration. The project I worked on was bacterial source tracking in the Westfield River watershed. I learned many things during this internship, from how to properly take water samples in the field and analyze them in the lab, to learning how to do different forms of office work. At first I wasn't too interested in bacterial source tracking and that is because I didn't know what it was. However, as I began the internship, I started collecting water samples and I began to really enjoy it. I found that doing an internship gives you a good hands-on experience you wouldn't receive just sitting in the classroom listening to a professor lecture.

Bacterial source tracking is used to determine the presence of fecal coliform bacteria in water samples. The idea is to isolate an area of stream with high bacteria counts, in the hopes of finding and eliminating the main source contributing to the high amounts of bacteria. Fecal coliform bacteria are used as a proxy for pathogens that might pose a public health threat. Fecal coliform is used because it is relatively easy and inexpensive to test for in water. I tested for *E.-coli* bacteria, a subset of fecal coliform more specific to mammals. Coliform bacteria are often found in the intestines of warm blooded mammals, including humans, though there other sources. The presence of these bacteria in surface waters may indicate human or animal contamination.

Following the existing protocols and procedures developed by previous bacteria work done at Westfield State University, I collected many water samples on various days; mostly from [Moose Meadow Brook](#) and its tributaries in Westfield. The water samples were brought back to the lab, where I tested them for *E.-coli* bacteria using the [Colilert](#) system, and recorded the final results into a database. While the initial sampling locations were chosen at random, these were subsequently refined based on the results of the later sampling intended to pinpoint problem areas. The sites that could indicate a water quality problem were the ones where testing results indicated bacterial concentrations that were above the state standard: i.e., had a most probable number of bacterial colonies over 235 in a 100ml water sample.

I worked on this project from mid-May to the end of August, and was able to isolate an area of Moose Meadow Brook that is a problem area. This is the lower section of Moose Meadow Brook, adjacent to agricultural lands that have little to no buffer between them and the stream. Every sample taken at this lower section of the brook had bacterial counts far above the state's allowed number of 235 colonies per 100ml of sample.

During this internship, I learned the value of quality control. This was done through a duplicate and split sample and also by taking a lab blank and a field blank. By doing this I was able to find out if I was doing anything wrong in the field or lab that could potentially contaminate the samples. Overall, I really enjoyed doing this internship this summer and I'm glad that it was recommended to me. The part that I enjoyed the most was being able to work in the lab: run the tests on the samples and come back the next day to read the results. In the lab, I had learned how to dilute certain samples in order to get the most accurate number of colonies of bacteria.

I would recommend this sort of internship to anyone that is interested in learning how to pinpoint water pollution hotspots; it is a great hands-on experience. However, before you go out into the field for the first time, make sure your waders don't have any holes in them; I found that out the hard way, as water began slushing around my legs. We also had a small incident with some wasps; just a few bee stings here and there, but that can happen when you're working outside. If you get the chance, wear chest waders, so you won't have to travel on the bank and you can move more easily up and downstream through the stream water. My last recommendation is, when you're using the [quanti-tray](#) sealer and you place your quanti-tray into the rubber tray holder, don't try to smooth out the sample to fill all the chambers. By doing this you just end up with more bubbles in the sample and it's just easier to put the sample into the tray and then through the sealer because the sealer will smooth it out evenly for you with fewer bubbles.

## RIFLS (River Instream Flow Stewards) Update

by Laila Parker, DER Flow Restoration Program Manager



*View of a RIFLS streamflow monitoring location (located downstream of water supply wells) in Third Herring Brook in Norwell/Hanover. This photo, taken last October, shows the brook in low flow conditions. DER intern Michelle O'Donnell can be seen in the background, measuring flow.*

This summer, DER's Flow Restoration program expanded on our monitoring efforts in multiple watersheds where DER is in the process of removing dams. RIFLS volunteers have documented recurring low flow conditions on Third Herring Brook, particularly downstream of the Norwell and Hanover wellfields (see above photo). We are now working with researchers at Boston and Wellesley Colleges to further document these trends using data loggers. We hope to work with the Norwell and Hanover water departments to assess water management approaches that could better protect flows in Third Herring Brook, a goal which is of greater imperative as dam removals proceed on that waterway [see Nick Wildman's article above].



We have also expanded our monitoring efforts on Gulf Brook in Pepperell, a [Mass. Division of Fisheries and Wildlife-designated Coldwater Fishery Resource](#) (CFR) and a tributary to the Nissitissit River upstream of the [Millie Turner Dam, slated for removal in 2015](#). In several recent years in late summer, the Squan-A-Tissit Trout Unlimited chapter and Nashua River Watershed Association members and staff have observed extremely low- and no-flow conditions near Pepperell's wellfield. With the TU chapter's help, DER has installed stream gages and data loggers immediately upstream and downstream of the town's wells. With these gaging stations, we hope to better document streamflow conditions, and work with the town to assess management alternatives that would better protect habitat in the driest months of the year. The many positive benefits of DER's dam removals, in these two cases and around the state, can be amplified by the restoration of more natural streamflows, near the dam removals, and throughout the watershed.

**Good news for Mass. USGS gages:** Stream gages provide essential information about the health of our rivers. DER's Flow Restoration program monitors streamflow through our River Instream Flow Stewards network, which focuses on smaller streams and those vulnerable to flow stress. We, and many others involved in water resources, rely on streamflow data collected by the U. S. Geological Survey (USGS) to understand long-term trends and larger rivers. [Click [here](#) to visit the [USGS's Massachusetts streamgage page](#), where real-time streamflow is presented and compared to past data, to determine if flows are above, below or normal for that location.] So we were delighted to hear this past summer that our sister agency, the Department of Conservation and Recreation (DCR), had additional funding to devote to the [cooperative state-USGS hydrologic monitoring network](#).

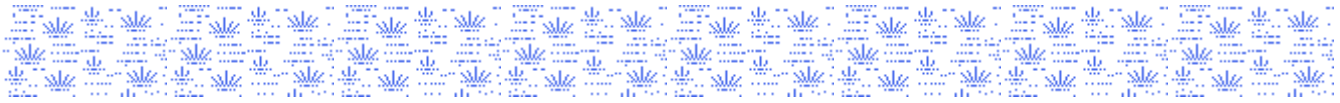


*View (looking downstream) of the staff gage associated with a USGS streamflow monitoring point, located at the Leavitt St. bridge over the Weir River in Hingham. Thanks to funding from DCR, continuous streamflow data from this location will soon be available on the [USGS' website](#).*

With these funds, USGS will reactivate gages on the Weir River at Leavitt Street in Hingham, and the Mattapoissett River near Mattapoissett, and continue monitoring the [Jones River in Kingston](#). (DER has conducted flow monitoring in each of these rivers and is actively working on flow restoration in the Jones). USGS will also reactivate a gage on Trout Brook in Dover and add a new site on the Cold River in the Deerfield watershed; both are considered reference stream gages that will give us a fuller picture of what to expect from a relatively naturally-flowing river. In addition, USGS will upgrade four groundwater observation wells to provide real-time, online data; three of which can be used to inform water management decisions in southeast Mass. and Cape Cod. Funding will



also support new bedrock groundwater observation wells, weather stations, tide gages, soil moisture monitoring, and snowpack monitoring. These improvements in the hydrologic monitoring network are welcome news for this network, as its joint state and federal funding has been cut in recent years. It is good news for those of us who work in water resources, and for the health of Massachusetts' waters.



## Weigh in on WOTUS before October 20

**Smaller streams and brooks** affect the water quality of the larger waterways they flow into, and are worthy and needful of protection in and of themselves (see, e.g., [\*Where Rivers are Born: The Scientific Imperative for Defending Small Streams and Wetlands\*](#)). Several ambiguous U.S. Supreme Court decisions over the last several years, however, have created confusion as to the scope of federal jurisdiction over surface waterways, leaving smaller waterways and streamside wetlands in jeopardy.

In response, [this past March and April](#), the U.S. EPA and the U.S. Army Corps of Engineers [issued](#) for public comment a proposed rule entitled “**Waters of the U.S.**” (also known by its acronym, “WOTUS”), defining the scope of waters protected under the federal Clean Water Act. The content of the proposed rule is based in large part upon [Connectivity of Streams and Wetlands to Downstream Waters: A Review and Synthesis of the Scientific Evidence](#), a report prepared last year by EPA scientists, which showed how different bodies of water – particularly **headwater, intermittent and ephemeral streams**, wetlands adjacent to such streams, and so-called “isolated” waters – have physical, chemical, or biological linkages to other, generally larger, waters.

[Many river, conservation and other groups](#) have since spoken out in favor of the proposed rule, including the [National Wildlife Federation](#), [Trout Unlimited](#) and [Earthjustice](#). [Merritt Frey](#) of [River Network](#) calls the proposed WOTUS rule “the most important Clean Water Act rulemaking in decades. River Network encourages watershed organizations and others working for clean, healthy water to learn about the rule, decide what it will mean for your watershed, and engage in the dialogue about the future of Clean Water Act protections.” Ms. Frey has posted several [informative blog entries](#) on River Network’s [Rivers and Habitat web page](#) relating to the proposed WOTUS rule. See, e.g. “[Debunking Myths and Soothing Fears: Clean Water Protection Rule](#)” from July 14, which includes links to several reliable sources of accurate information on the proposed rule, including the **EPA’s Ditch the Myth** page, and this [blog](#), issued in response to the American Farm Bureau Federation’s “Ditch the Rule” campaign against the proposed rule. Click [here](#) to read blog entries from Merritt encouraging watershed associations, river groups and everyone in favor of healthy fish, people and waterways to speak out in favor of the proposed rule, or click [here](#) to view recorded versions of two River Network webinars from earlier this year about WOTUS.

► The **comment period** on the proposed WOTUS rule will **close on Monday, October 20, 2014**. Click [here](#) to submit comments via the Federal eRulemaking Portal, or [here](#) for instructions on other ways to submit comments. To assist in drafting your comments, you may want to look at the [EPA’s Waters of the U.S. web page](#), which provides many talking points in favor of the proposed rule, [here](#) to take part in a **October 9** webinar for WOTUS commenters, or [here](#) to read a transcript from a July 16 webinar entitled [Waters of the U.S.: Clarifying Misconceptions](#).

---

[> Return to top of document](#)



## Resources and Grants

### Grant, Prize, Fellowship, Contest, Award, Fundraising, etc. Opportunities

*(presented in rough chronological order by application/nomination/entry deadline)*

The **U.S. EPA** has launched the third annual [Campus RainWorks Challenge](#), a green infrastructure design challenge for college and university students. Student teams, working with a faculty advisor, will submit design boards, a project narrative, and a letter of support describing a proposed green infrastructure project for a location on their campus. Registration **ends October 3**, and registrants must submit their entries by **December 19**. Winning teams will earn a student prize of \$1,000-\$2,000, to be divided evenly among student team members, and a faculty prize of \$2,000-\$3,000 to support green infrastructure research or training. Click [here](#) or [here](#) to enter the contest or for more info.

Administered by the [Coastal Zone Management](#) (CZM) office within the Mass. Executive Office of Energy and Environmental Affairs (EEA), the [Coastal Community Resilience Grant Program](#) and the [Green Infrastructure for Coastal Resilience Pilot Grant Program](#) will provide funding and technical resources on a wide range of community-based efforts to increase resilience to coastal storms, inundation, erosion, and sea-level rise. The **Coastal Community Resilience Grants Program** offers competitive awards to coastal cities and towns to increase public education and awareness; assess vulnerability and risk; identify and implement management measures, standards, or policies; and implement redesign options to accommodate changing conditions. The **Green Infrastructure for Coastal Resilience Pilot Grant Program** provides competitive grants to coastal cities and towns and **non-profit organizations** to implement living shoreline techniques, including beach and dune building, enhancement, or restoration; bio-engineering approaches with native vegetation; natural oyster or mussel reef creation, enhancement, or restoration; and fringing salt marsh creation or restoration. The **deadline** to apply for funding for both of these programs is **Friday, October 10, 2014**. Click [here](#) to read the EEA press release about these grant opportunities, or contact Patricia Bowie, CZM's Coastal Resiliency Specialist, at [patricia.bowie@state.ma.us](mailto:patricia.bowie@state.ma.us) for more info.

CZM is also seeking proposals for the [Coastal Pollutant Remediation \(CPR\) Grant program](#). For Fiscal Year (FY) 2015, the CPR program will provide up to \$400,000 to municipalities located in the [Massachusetts Coastal Watershed](#) to assess and remediate stormwater pollution from paved surfaces and to design and construct commercial boat waste pumpout facilities. As much as \$125,000 may be requested and a 25 percent match of the total project cost is required. Projects may not exceed one year in duration and must be completed by June 30 of each year. For more information, to view the RFR, and download required forms, see the [COMMBUYS website](#). Proposals are due by **October 7**.

The [American Hiking Society](#) (AHS) is currently (until the **deadline of October 10, 2014**) **accepting crew requests for inclusion in the 2015 AHS Volunteer Vacations schedule**. Volunteer Vacations are week-long trail building/maintaining projects organized by the AHS and hosted by USDA-FS, NPS, USFWS, state parks, trail organizations and other nonprofit partner groups across the country. AHS's Volunteer Vacations program is designed to send you a crew of eager volunteers, ready to assist with your trail needs. Any government agency or nonprofit organization can request a crew (non-profit organizations will need to be [Alliance Members](#) of AHS to host). Prospective applicants should: (1) read the [Host Guide 2015](#) to determine if your organization can fulfill the responsibilities of hosting a Volunteer Vacations crew; then (2) click [here](#) to review "things to consider when making your request" and the "factors that we consider when selecting projects", prior to submitting your request. If you're still interested, then (3) click [here](#) to apply for a 2015 Volunteer Vacations crew. [NOTE: you will need to fill out the online application **in one session** and will **not** be able to save your work and return to a partially filled out application.] Contact Libby Wile, AHS Senior Director of Volunteer Stewardship, at (301) 565-6704 ext. 206 or [lwile@americanhiking.org](mailto:lwile@americanhiking.org) for more info.

Administered by the Australia-based [International RiverFoundation](#) (IRF) in partnership with [River Network](#), the inaugural [North American Riverprize](#) will be awarded for the first time in 2015, for excellence in the restoration, protection or management of rivers on the North American continent. The North American Riverprize is judged by a panel of experts and the winner will be announced at [River Rally 2015](#), in Santa Ana Pueblo, New Mexico. All finalists are invited to be part of the conference and awards ceremony to share their success stories with the world. The Riverprize winner will receive a trophy and a cash prize, and a “twinning grant” may also be made available to the winner to facilitate their knowledge and expertise to be shared with another deserving river group. Applications are invited from organizations of any size who are working on rivers in Canada, Mexico or the USA. Applicants are required to submit a Stage 1 application form through the online system. This first stage is intended to be short and succinct to simplify the process for applicants. Stage 1 applications are then reviewed, and those deemed suitable for Stage 2 will be asked to submit further information. If your application is accepted for Stage 2, you are then required to complete the full application process. Click [here](#) for more info and [here](#) to apply for the Riverprize; note that the **deadline** for Stage 1 is **Wednesday, October 15**.

The [James Marston Fitch Charitable Foundation](#)’s [Mid-Career Grant Program](#) awards **grants to professionals working in the fields of historic preservation, landscape architecture, urban design, environmental planning, decorative arts, architectural design, and architectural history**. Fitch Mid-Career grants of up to \$15,000 are awarded annually to one or two mid-career professionals with at least ten years of experience and an academic background, professional experience, and an established identity in one or more of the eligible fields. The Foundation will consider proposals for research and/or execution of a preservation-related project in any of the eligible fields. Projects will be evaluated based on a range of criteria, including the potential for the project to make a meaningful contribution to the **academic and/or professional field of historic preservation in the United States** and the innovativeness and creativity of the planned project. Grants are awarded to individuals only (i.e., not to organizations). The **deadline** to apply is **October 15, 2014**; click [here](#) to apply or for more info.

The [Lowe’s Charitable and Education Foundation](#) recently announced the opening of its **Fall 2014 Toolbox for Education** grant round, which supports projects that encourage parent involvement in local schools and build stronger community spirit. One-year grants of up to \$5,000 will be awarded in support of projects that have a permanent impact on a school community such as a facility enhancement (indoor or outdoor) or landscaping/clean-up project. In addition, Toolbox grants can be used as part of a large-scale project like the construction of playground as long as the funds are used to complete a phase of the project within twelve months of the grant award. To be eligible for a grant, applicants must be a public K-12 school or nonprofit parent group associated with such a school. The **deadline** for submitting applications for this grant cycle is **October 15, 2014, or until 1500** applications are received, whichever comes first. Complete application instructions and program guidelines, as well as lists of past grant recipients, are available on the [Toolbox for Education](#) website.

[Wild Ones](#), a nonprofit environmental education and advocacy organization, is currently accepting applications from projects designed to **strengthen an appreciation for nature in young people**. Through the [Lorrie Otto Seeds for Education Fund](#), grants of up to \$500 will be awarded for projects that emphasize the involvement of students and volunteers in all phases of development. Examples of appropriate projects include the **establishment of a native plant community in an educational setting such as an outdoor classroom, developing and maintaining an interpretive trail landscaped with native plant communities, and/or developing a wetland area to study the effect of native vegetation on water-quality improvement**. Schools, nature centers, and other nonprofit places of learning that focus on educating elementary through high school students in the United States, including houses of worship, are eligible. Qualified applicants must have a site available for the project. The annual application **deadline** is **October 15**; Click [here](#) or [here](#) for more info.

Governor Deval Patrick recently allocated a new appropriation for the [Massachusetts Cultural Facilities Fund](#). These funds will allow the [Massachusetts Cultural Council](#) (MCC) and [MassDevelopment](#) to support capital projects in the arts, humanities, and sciences that expand access and education; create jobs in construction and cultural tourism; and improve the quality of life in cities and towns across the Commonwealth. The **Intent-to-Apply Deadline** is **October 21, 2014**, and the **Final Application Deadline** is **November 21, 2014**. Before you



begin an application, you are advised to read the [program guidelines](#) and [FAQs](#); attend an [information session](#); click [here](#) to learn about past funded projects; or go to [www.massculturalfacilities.org](http://www.massculturalfacilities.org) or contact Jay Paget, Program Director [[jay.paget@art.state.ma.us](mailto:jay.paget@art.state.ma.us) or (617) 858-2723] for more info.

The [Massachusetts Environmental Trust](#) (MET) recently announced that its Requests for Responses (RFR) for its **FY2016 General Grants** is now open. The [General Grant program](#) provides funding to support programs, research, and other activities that promote the responsible stewardship of the Commonwealth's water resources. The goal of this MET program is to encourage development of new approaches and ideas and to spur innovation among grantees or partnering organizations. To achieve these outcomes, the Trust seeks proposals that would: **improve water quality or quantity, conserve aquatic or marine habitat and species, reduce runoff pollution, mitigate the effects of climate change on water resources, promote human health as it relates to water resources**, and/or other efforts consistent with the Trust's mission. **Letters of inquiry** for this round must be **received by October 24, 2014** for projects that will begin in July 2015. To access the RFR directly, click [here](#), then go to the **attachments** section and select "RFR ENV 15 MET 01" to view the RFR document. For more info, or if you prefer a copy of the RFR e-mailed directly to you, contact Bill Hinkley [[william.hinkley@state.ma.us](mailto:william.hinkley@state.ma.us) or (617) 626-1177].

The [National Environmental Education Foundation](#) (NEEF)'s [Every Day Capacity Building Grants](#), sponsored by Toyota, offer support to nonprofit organizations, such as "**Friends Groups**," whose missions are focused on the **improvement and responsible use of public land sites throughout the nation** (click [here](#) for a list of such groups in Massachusetts). Grants of up to \$5,000 are provided to increase organizational effectiveness so that grantees can better conserve public lands. The application **deadline is October 30, 2014**; click [here](#) to apply online or for more info.

[American Rivers](#) is currently (until **October 31, 2014**) seeking nominations for its 2015 list of [America's Most Endangered Rivers®](#). Rivers are selected based upon the following criteria: ■ A major decision (that the public can help influence) in the coming year on the proposed action; ■ The significance of the river to human and natural communities; and ■ The magnitude of the threat to the river and associated communities, especially in light of a changing climate. American Rivers' annual ***America's Most Endangered Rivers®*** report "highlights ten rivers whose fate will be decided in the coming year, and encourages decision-makers to do the right thing for the rivers and the communities they support. The report is not a list of the nation's 'worst' or most polluted rivers, but rather it highlights rivers confronted by critical decisions that will determine their future. The report presents alternatives to proposals that would damage rivers, identifies those who make the crucial decisions, and points out opportunities for the public to take action on behalf of each listed river. The *America's Most Endangered Rivers®* list is a powerful tool for media outreach, public influence, and visibility. Please help us make the most of this great opportunity in 2015!" Contact Ms. Jessie Thomas-Blate, Associate Director of River Restoration and Protection [(202) 347-7550 or [jthomas@amrivers.org](mailto:jthomas@amrivers.org)] for more info on how to nominate a river for the 2015 list, click [here](#) to download the 2015 nomination form, or click [here](#) to download the [2014 America's Most Endangered Rivers® report](#).

[NOAA's New England Bay Watershed Education and Training Program \(B-WET\)](#) "supports environmental education through locally relevant experiential learning in the K-12 environment. NOAA recognizes that knowledge and commitment built from firsthand experience, especially in the context of one's community and culture, are essential for achieving environmental stewardship. Successful projects are those carefully selected place-based experiences that are driven by rigorous academic learning standards, engendering discovery, wonder, and associated stewardship impulses. [B-WET](#) projects nurture a sense of community, enable students to understand their place in their watershed, help reinforce an ethic of responsible citizenship, and promote academic achievement." [B-WET](#) funds projects that support students and educators in the best-practices that are characterized as "[meaningful watershed educational experiences](#)" (MWEEs). Funded projects provide MWEEs for students and related professional development for teachers. Up to \$200,000 is expected to be available to allocate among 3-6 grantees in FY2015. The application **deadline is October 31, 2014**; click [here](#) to download the FY15 B-WET New England grant announcement, or click [here](#), [here](#), [here](#) or [here](#) for more info and help on this grant opportunity.

Alternatively (or additionally), you can contact [Colleen Coogan](#) [NOAA Greater Atlantic Regional Fisheries Office, (978) 281-9181 or (978) 281-9290] or [Deirdre.Kimball@noaa.gov](mailto:Deirdre.Kimball@noaa.gov) for more info

The [Conservation Alliance](#) is a group of outdoor businesses whose collective contributions **support grassroots citizen-action groups and their efforts to protect wild and natural areas in North America where outdoor enthusiasts recreate**. Funded programs should seek to secure permanent protection of a specific threatened wild place or waterway for its habitat and recreational values. The Alliance is not looking for mainstream education, restoration, or scientific research projects, but rather for active campaigns. Grants of up to \$50,000 are provided. Before applying for funding, **an organization must be nominated by one of the Alliance's [member companies](#)**. The upcoming nomination **deadline is November 1, 2014**. The Alliance will send each nominated organization a request for proposal, including instructions on submitting a full proposal, which is due **December 1, 2014**. Click [here](#) for more info.

---

The Kelso, WA-based [Fund for Wild Nature](#) “invests in **cutting-edge grassroots organizations and innovative conservation efforts** in the U.S. and Canada that meet emerging needs for protecting biodiversity and wilderness”. The Fund provides small grants (in the \$1,000-\$3,000 range) for **campaigns to save native species and wild ecosystems**, with particular emphasis on actions designed to **defend threatened wilderness and biological diversity**. The Fund supports biocentric goals that are premised on effective and intelligible strategies, and gives special attention to ecological issues not currently receiving sufficient public attention and funding. All projects must be highly cost-effective, and the Fund **rarely** supports proposals from organizations with large budgets (over \$250,000 annually). The Fund supports advocacy, litigation, public policy work, development of citizen science, and similar endeavors. The Fund does **not** support basic scientific research, private land acquisition, individual action or study, conferences, **or** organizations which receive any government funding. Click [here](#) to read the grant guidelines and application instructions; the two annual application **deadlines** are May 1 and **November 1**.

The Atlanta, GA-based [James M. Cox Foundation](#) “provides funding for capital campaigns and special projects in communities where [Cox Enterprises, Inc.](#) does business [which [includes southern New England](#)]. The Foundation is concentrating its community support in several priority areas: **Conservation and Environment**; Early Childhood Education; Empowering Families and Individuals for Success; and Health.” There are three annual application **deadline dates**: March 1, June 1, and **November 1**. Prospective grant seekers should click [here](#) for more info. [Note: [Cox Enterprises](#) (which includes the [auto wholesaling company Mannheim New England](#)) also makes **corporate contributions** to organizations that **enhance the well-being and vitality of communities served by the company** in three focus areas: **preserving the environment**; empowering individuals, families, and communities; and promoting diversity and inclusion. Questions related to submitting a corporate contributions request should be emailed to [CorporateGiving@coxinc.com](mailto:CorporateGiving@coxinc.com).]

The three stated priorities of the [Community Impact Fund](#) of the [Nicholas B. Ottaway Foundation](#) are: **Arts in the Community** (interactive and engaging arts programs that focus on underserved communities or disadvantaged populations); **Public Health** (public health programs that have a direct impact on a specific number of beneficiaries, focusing on underserved or disadvantaged populations); and **Environment** (programs that improve or address environmental issues and that engage populations directly). Community Impact Fund members will generally make a site visit before approving a grant. Therefore, geographic preference is given to projects and organizations within the states and communities where fund members work or reside in (which includes **Massachusetts** and New York State). The average Community Impact Fund grant runs from \$3,000-\$20,000. The Community Impact Fund typically makes a small grant to first time applicants for a specific project. While the Foundation accepts [online grant applications](#) between **November 1st** and March 31, it is strongly recommended that grant seekers [fill out and submit the short letter of intent/inquiry form first](#). Click here or write to the Foundation's Executive Director at [bonnieburgoyne@gmail.com](mailto:bonnieburgoyne@gmail.com) for more info.

[ArtPlace America](#) (ArtPlace) is a ten-year collaboration that exists to **position art and culture as a core sector of comprehensive community planning and development** in order to help strengthen the social, physical, and economic fabric of communities. ArtPlace focuses its work on **creative placemaking**, the set of practices in which art and culture work intentionally to help to transform a place. [ArtPlace's National Grants Program](#) supports creative placemaking projects in communities of all sizes. Prospective grant seekers need to register and **submit an online Letter of Inquiry** in order to be considered for funding. All Letters of Inquiry must be submitted by the **deadline** of 3:59 PM EST on **November 3, 2014**. Click [here](#) for more general info, [here](#) to view an informational video, and click [here](#) to read the [FAQ page](#).

The [North American Wetlands Conservation Act](#) (NAWCA) provides matching grants to organizations and individuals who have developed partnerships to carry out **wetlands conservation projects** in the United States, Canada, and Mexico for the **benefit of wetlands-associated migratory birds and other wildlife**. There is a Standard and a [Small Grants Program](#). Although the [FY15 Standard Grants](#) deadline has passed, the [NAWCA small grants](#) (up to \$75,000 in grant funds) **deadline** isn't until **Friday, November 7, 2014**. Grants are available to partners who can provide at least a 1:1 in non-federal match in support of **wetland and associated upland habitat protection, restoration and enhancement**. [Atlantic Coast Joint Venture](#) staff (contacts below) are available to help you assess the competitiveness of a project, provide information on bird conservation plans and priorities in your area and develop grant applications. Please contact one of them soon if you are considering submitting an application or if you have any questions. The [ACJV staff contacts for Massachusetts](#) are Mitch Hartley [(413) 253-8779, (413) 253-8424 (fax), [Mitch\\_Hartley@fws.gov](mailto:Mitch_Hartley@fws.gov)] or Debra Reynolds [(413) 253-8674, (413) 253-8424 (fax), [Debra\\_Reynolds@fws.gov](mailto:Debra_Reynolds@fws.gov)]. You can also click [here](#) or [here](#) for more info.

The [Center for Sponsored Coastal Ocean Research](#) (CSCOR) is soliciting proposals under the [2015 Ecological Effects of Sea Level Rise \(EESLR\) Program](#) to improve the management of regional and local ecosystem effects of sea level rise and coastal inundation through targeted research on key technologies, natural and nature-based infrastructure, physical and biological processes, and model evaluation. The overall goal of EESLR is to integrate dynamic physical and biological processes with sea level rise and coastal inundation to improve the prediction of coastal ecosystem effects to enable enhanced coastal resiliency. This information will be used to advance the capacity and capabilities of the [NOAA Sentinel Site Program](#). Approximately 2 to 5 projects, 2-3 years in duration, are expected to be funded at the level of \$150,000 to \$200,000 per year per proposal. The **deadline** to apply is **November 18, 2014**; click [here](#), [here](#) or contact David Kidwell [[David.Kidwell@noaa.gov](mailto:David.Kidwell@noaa.gov), (301) 713-3338] for more info.

The Boston-based **Ausolus Trust** (no web page) makes grants to §501(c)(3) organizations for environmental, historic preservation and other purposes, in Massachusetts and Maine, with a focus on the Boston and Bar Harbor areas. Grants (generally in the \$1,000 – 10,000 range) are awarded for general operating and project support. Interested applicants should submit a written request that includes a description of the organization, the purpose for which funds are being requested, and the amount of the request. Applicants should also include a copy of the IRS letter confirming tax-exempt status. Send it to: Mr. George Putnam, Trustee, Ausolus Trust, c/o The Putnam Funds, One Post Office Square, Boston, MA 02109. Telephone: (617) 292-1401. The annual application **deadline** is **December 1**.

[Nominations are being sought](#) (until **December 1, 2014**) for the [Environmental Law Institute's 2015 National Wetlands Awards](#). Awards will be given for individuals in the following six categories: **Conservation and Restoration; Education and Outreach; Landowner Stewardship; Science Research; State, Tribal, and Local Program Development; and Wetlands Community Leader**. Recipients are chosen by a selection committee of wetland experts from across the country and honored at a ceremony on Capitol Hill each May - **American Wetlands Month**. Click [here](#) for more info and [here](#) to download the nomination form.

[Environmental Solutions for Communities](#), administered by the [National Fish and Wildlife Foundation](#) (NFWF) and sponsored by Wells Fargo, supports highly-visible projects that link economic development and community



well-being to the stewardship and health of the environment. The focus is on projects that: **promote a sustainable future for communities by supporting sustainable agricultural practices and private lands stewardship; conserve critical land and water resources and improve local water quality; restore and manage natural habitat, species, and ecosystems that are important to community livelihoods; facilitate investments in green infrastructure, renewable energy, and energy efficiency; and encourage broad-based citizen participation and targeted youth participation in project implementation.** Nonprofit organizations, educational institutions, and state, tribal, or local governments in selected regions and states where Wells Fargo operates are eligible to apply. Approximately \$2,500,000 is available nationwide for 2015 projects, and one of the targeted areas for 2015 funding is **urban areas in New England**. Grants generally range from \$25,000 to \$100,000, with an average grant amount of \$40,000. The **deadline** to submit full proposals is **Wednesday, December 10, 2014**. Click [here](#) or [here](#) for more details on this grant opportunity and to submit an online proposal.

The [National Endowment for the Arts](#) (NEA)'s "[Our Town](#)" [Grants Program](#) seeks to promote [Creative Placemaking](#): where partners from public, private, nonprofit, and community sectors strategically shape the physical and social character of a neighborhood, town, city, or region around arts and cultural activities. Grants ranging from \$25,000 to \$250,000 are available to support creative placemaking projects that animate public and private spaces, rejuvenate structures and streetscapes, improve local business viability and public safety, and bring diverse people together to celebrate, inspire, and be inspired. The application **deadline** is **December 15, 2014**; click [here](#) or [here](#) for more info, and [here](#) for some ideas worth considering for incorporating into your proposal.

The [President's Youth Environmental Awards \(PEYA\) Program](#) promotes awareness of our nation's natural resources and encourages positive community involvement. Since 1971, the President of the United States has joined with EPA to recognize young people across the U.S. for protecting our nation's air, water, land, and ecology. One outstanding project from each EPA region is selected for national recognition. Projects are developed by young individuals, school classes (K-12), summer camps, and youth organizations to promote environmental stewardship. Winning projects in the past have covered a wide range of subject areas, including environmental science projects, construction of nature preserves, major tree planting programs, videos, skits, and newsletters that focused on environmental issues. The application **deadline** for the regional PEYA awards is **December 31, 2014** applications for [PEYA certificates](#) are accepted on a year-round basis. Click [here](#) or contact Kristen Conroy at (617) 918-1069 or [conroy.kristen@epa.gov](mailto:conroy.kristen@epa.gov) at the EPA's Region One/New England office for more info.

[American Rivers'](#) [Anthony A. Lapham River Conservation Fellowship](#) provides an excellent professional development opportunity for talented post-graduates pursuing careers as leaders in the field of conservation advocacy. Recent graduate degree (MA/MS/PhD/JD/MBA) recipients will focus on an applied research project that will make a tangible contribution to American Rivers' mission. Working with a team of professional staff, the individual will apply practical research and advocacy skills and develop a network of professional contacts in their field of expertise. The individual will be an integral part of a dynamic organization comprised of experienced conservationists and emerging leaders and will participate in a range of organizational functions including staff retreats and Board of Directors meetings. Click [here](#) to download detailed info about this Fellowship and how to apply; the application **deadline** is **January 5, 2015**.

The U.S. Forest Service's (USFS) [Community Forest Program](#) (CFP) protects forests that are important for people and the places they call home. Community forests provide many benefits such as places to recreate and enjoy nature; they protect habitat, water quality and other environmental benefits, and they can provide economic benefits through timber resources. Community Forests have also long been sites for environmental and cultural education. The USFS [recently released](#) its [call for applications](#) for the coming round of [Community Forest Program \(CFP\) grants](#). **CPF funds the preservation of threatened private forest land for public recreation, wildlife habitat and water quality protection, and sustainable forestry.** A CFP grant – which may not exceed \$400,000 – will pay up to 50% of the property's acquisition. The property must be privately held, at least five acres, and at least 75% forested. Moreover, grant funding may only be used for fee acquisitions. CFP applications are due to [State Foresters](#) [for Massachusetts, the State Forester is Peter Church, MA DCR, 251 Causeway St., Boston, MA 02114, (617) 626-1461, (617) 626-1449 (fax), [peter.church@state.ma.us](mailto:peter.church@state.ma.us)] by **January 15, 2015**. Contact USFS regional contact [Neal

Bungard, (603) 868–7719, (603) 868–7604 (fax), or [nbungard@fs.fed.us](mailto:nbungard@fs.fed.us)] for more info, or click [here](#) to read a fact sheet on the CFP and its grants program. [Other useful resources on this topic include [Community Forests: A Community Investment Strategy](#) (2007) and [Community Forests: Needs and Resources for Creating and Managing Community Forests](#) (2011), published by the [Community Forest Collaborative](#).]

The [Eaton Charitable Fund](#) is dedicated to supporting programs that improve the quality of life in communities where the [Eaton](#) company operates (in Massachusetts, that includes Beverly, Billerica, Boston, Franklin, Peabody and Worcester.) The Fund will give primary consideration to requests for programs or projects that are located in an Eaton community, that are recommended by an Eaton manager, and that have Eaton employee involvement. The Fund's areas of interest include education, health, human services, arts and culture, and civic and community improvement. Program, project, and capital grants are awarded. Capital grants are made for special purposes that meet specific community needs within the company's funding focus. On occasion, operating grants are awarded. Prospective grant seekers should click [here](#) for more info.

The [Draper Richards Kaplan Foundation](#) (with [offices located in Boston and Menlo Park, CA](#)) **provides start-up funding and ongoing support to a select group of exceptional leaders and organizations devoted to achieving solutions to social and environmental challenges** (click [here](#) for more info). Grants range up to \$100,000 annually for three years. Prospective grant seekers should click [here](#) and [here](#) to read grant guidelines and for more info on how to apply for funding; proposals are accepted throughout the year.

The **Stephen and Mary Birch Foundation** (no web page) makes grants (typically in the \$5,000 - \$20,000 range, but occasionally considerably larger) to health, Catholic and other charities throughout the U.S. Prospective grant seekers should submit a full description of the project for which funding is sought, including details on its purpose and implementation, accompanied by the organization's IRS tax exemption determination letter, current financials and budget. There are no specified application forms or deadlines. Send it to: Rose Patek, President, Stephen and Mary Birch Foundation, 103 Foulk Road, #200, Wilmington, DE 19803. Telephone: (888) 372-6303.

The Boston-based **Archibald Family Charitable Foundation** (no web page) makes grants (generally in the \$1,000 - \$10,000 range, but occasionally larger) to conservation and other nonprofit organizations in Massachusetts and elsewhere. Groups seeking funding should submit the request to: David W. Lewis, Jr., Archibald Family Charitable Foundation, c/o KL Gates, One Lincoln St., Boston, MA 02111-2950. Telephone: (617) 261-3100. There are no specified application forms, guidelines or deadlines.

The Boston-based **Carlee Charitable Trust** (no web page) limits its grantmaking to “various public charities which emphasize the protection and care of domestic animals, the protection of natural wildlife species, the conservation of areas of natural habitat and beauty, and the preservation of historic architecture in the New England Area”. Prospective grant seekers should contact the Trust for more info regarding any application forms, accompanying materials, and submission deadlines. Contact: Frederick D. Ballou, Trustee, Carlee Charitable Trust, 230 Congress St., Boston, MA 02110. Telephone: (617) 523-6531.

The **Esther Simon Charitable Trust** (no web page) makes grants (generally in the \$1,000 - \$5,000 range, and occasionally larger) to nonprofit groups education, conservation, cultural and other purposes. While many grant recipients are located in southeastern Mass., particularly in and around Falmouth, requests from other locations will be considered for funding. Prospective grant seekers should send a letter stating the reason for the requested grant. Send it to: Stephen A. Simon, Esther Simon Charitable Trust, c/o JP Morgan Bank, 270 Park Avenue, New York, NY 10017. There are no specified application forms or deadlines.

The **Weezie Foundation** (no web page) makes a relatively small number of larger-sized grants (generally \$30,000 and up) to educational, cultural, and environmental institutions and other organizations, primarily located in Massachusetts and elsewhere in New England. Groups seeking funding should do so in the form of a letter. Send it to: The Weezie Foundation, c/o JP Morgan Chase Bank, NA, ATTN: James Vinograd, 270 Park Ave., 18<sup>th</sup> Floor, New York, NY 10017. There are no specified application forms or deadlines.

The **Knopf Family Foundation, Inc.** (no web page) makes grants (generally in the \$2,000 - \$10,000 range) to promote the welfare of domestic and wild animals and their habitats, in New England and elsewhere. Prospective grant seekers should send a formal letter at any time detailing the purposes for which funding is sought, and the charitable purpose of the organization seeking the funding. Send it to: Charles E. Knopf, Jr., Knopf Family Foundation, 6680 SE Harbor Circle, Stuart, FL 34996. Telephone: (772) 225-1932.

[> Return to top of document](#)

---

## Calendar

*(sorted chronologically by date of event, submission deadline, etc. Descriptive text for events provided below is obtained from the events' web pages.)*

**October** is [Archaeology Month](#) in Massachusetts. Click [here](#) to download the [2014 Massachusetts Archaeology Month Calendar](#). Among the events in that Calendar that might interest you: An *Archaeology at a Native American Campsite by the Merrimack River* presentation on **Tuesday, October 7, 7:00 PM** at the [Acton Memorial Library](#), sponsored by [Friends of Pine Hawk](#), at which archaeologist Marty Dudek will discuss recent excavations at a campsite along the Merrimack River, where the discoveries have revealed a deep history of Native American lifeways spanning thousands of years.

***YOUR Future In Clean Energy And Sustainability***, aka [The 6th Massachusetts Green Career Conference](#), will take place on **Wednesday, October 1, 2014** from 8:00 AM – 3:30 PM at the [Marlborough Holiday Inn](#). The Conference will connect stakeholders from government, education, business, and nonprofits, and green-career-ready candidates to advance sustainable development. Conference attendees will: engage in cross-sector dialogues; learn about research, trends, best practices, products, services, opportunities; take home inspiration, connections, resources for greener careers; and, perhaps, make progress in getting (or filling) a “green job”. Click [here](#) to register or for more info, or contact Conference Director, Jen Boudrie, at [JenBoudrie@gmail.com](mailto:JenBoudrie@gmail.com) or (508) 481-0569.

Presented by [River Network](#), the [Clean Water Act 101 Institute](#) “is designed to help the staff and volunteers of watershed organizations and others develop an action-orientated understanding of a powerful tool for river restoration and protection – the **Clean Water Act**. The Act’s programs and citizen engagement requirements can lead to huge on-the-ground improvements in water quality and habitat, but the law can be intimidating. Through this Institute, we help people feel confident with the core programs of the Act, understand how they are applied in their watershed, and feel empowered to make change for the better using the Act”. River Network will provide a 6-month course to a cohort of 30-40 staff and volunteers from watershed groups, community organizations and others. This will be a great orientation for both beginner and intermediate staff looking to better understand the Clean Water Act. Starting in **October 2014**, the Institute will provide six, 90-minute webinars (one webinar a month) addressing the most important tools within the Clean Water Act, including (subject to adjustment to reflect participants’ priorities): Clean Water Act: An Overview and Resources; Water Quality Standards; Point Source Pollution Control Permits: Wastewater & CAFOs; Point Source Pollution Control Permits: Stormwater; Wetland and Stream Alteration Permits and 401 Water Quality Certification; and Restoration tools: Total Maximum Daily Loads, Nonpoint Source Program. As this is a beta-version of the Institute, these webinars will be offered at no charge. Click [here](#) (before **September 30** if possible) to reserve your spot for the full Institute, or (if you are not quite ready to commit to the full Institute, or the sessions are full) click [here](#) to access River Network’s free online Clean Water Act Course. Contact Ms. Merritt Frey at (801) 486-1224 or [mfrey@rivernetwork.org](mailto:mfrey@rivernetwork.org) for more info.

A free event entitled [Massachusetts Town Forests, Connecting Local Communities with Sustainable Forestry](#) will be taking place on **Sunday, October 5, 2014** in Weston. Hosted by [Land’s Sake](#), in partnership with the [Mass. Dept. of Conservation and Recreation](#), the [Weston Conservation Commission](#), the Weston [Forest and Trails Association](#), and other local conservation and forestry organizations, the event will focus on



community forestry and all of the different opportunities that local, sustainable forest management can create. The event will consist of lectures and workshops targeted towards all different audiences during the morning, starting at 9:00 AM, followed by interactive and hands-on activities in the afternoon. Participants will be able to pick and choose lectures and activities that interest them, and make the most out of this opportunity. Click [here](#) or contact Michael Downey at [michael.downey@state.ma.us](mailto:michael.downey@state.ma.us) for more info.

“Celebrate the beauty of the Buzzards Bay region by participating in the [Buzzards Bay Watershed Ride](#)! Whether you’re an avid cyclist or a casual rider, you’ll enjoy a fun, scenic ride with 75-mile and 35-mile route options. And you’ll raise funds to protect clean water for all.” This bicycle ride benefits the [Buzzards Bay Coalition](#) and is scheduled to take place on **Sunday, October 5, 2014**. Click [here](#) to sign up or for more info.

The [Connecticut Invasive Plant Working Group](#) (CIPWG) will present its [7<sup>th</sup> Biennial Symposium, Invasive Plants 2014: Where Are We Now?](#) on **Tuesday, October 7, 2014** at the Student Union Building at the University of Connecticut in Storrs. This full-day symposium features national, regional, and local experts, as well as citizen volunteers sharing practical solutions for managing invasive plants, promoting non-invasive plants, and improving wildlife habitat. People with all levels of interest and experience are invited to attend. Nationally-recognized Keynote speaker, Dr. Sarah Reichard, Professor and Director of the University of Washington Botanic Gardens will present “Five-year Target: A down-to-earth vision bridging policy, research and management”. David Gumbart from the Connecticut Chapter of The Nature Conservancy will deliver closing remarks. Concurrent afternoon sessions will include: ▪ Tips for successful invasive plant management projects; ▪ Alternative plants for improving gardens and other areas as wildlife habitat; ▪ Priorities and partnering for invasive plant management; ▪ Aquatic invasive plant updates; ▪ Early Detection – curbing the spread; and ▪ Species-specific invasive plant identification, management and alternative plants. Click [here](#) to register, [here](#) to read the press release about the Symposium, or contact Donna Ellis [(860) 486-6448; [donna.ellis@uconn.edu](mailto:donna.ellis@uconn.edu)] for more info.

[Mass. Audubon’s Long Pasture Wildlife Sanctuary](#) is hosting an event entitled [The Hunt for Red October](#) on **Wednesday, October 8**, from 10:00 AM – 12:00 Noon. “Hike the dunes of Sandy Neck in search of freshwater cranberry wetlands with Mass. Audubon Long Pasture’s Ian Ives and Sandy Neck Manager Nina Coleman. Learn about wetland ecology, and pick fresh Sandy Neck cranberries for your Thanksgiving table”. Fee: Adults \$7/ members, \$9/non-members; Children \$5/members, \$7/non-members. Pre-registration is **not** required. Click [here](#), [here](#) or call the Sanctuary at (508) 362-7475, ext. 9355 for more info.

[GrantStation](#) is hosting several webinars this fall to help nonprofit organizations and their ability to raise funds in support of their missions and programs: [Building a Powerful Grants Strategy for 2014 - 2015](#) (on **Wednesday, October 8**); [Collaborative Grantseeking: Five Secrets for Success When Partnerships Are Required](#) (on **Thursday., October 9**); [What IS Your Problem? Writing a Compelling Statement of Need](#) (on **Wednesday, October 15**); and [Now Is the Time - Mobilize Your Board to Raise Funds](#) (on **Thursday, October 23**). Click [here](#) to register or for more info on these or other upcoming GrantStation webinars.

A [Call for Workshops](#) has been made for [River Rally 2015](#), which will take place in Santa Ana Pueblo, NM from May 1-4, 2015. River Rally 2015 will focus on the following five themes: water security and scarcity in a climate-changed world; solutions and innovations to deliver clean water; novel collaborations to expand impact and get to scale; organizational development for river groups and watershed organizations; and tribal opportunities and breakthroughs. River Rally 2015 is pleased to be working closely with [River Management Society](#), and will offer an entire workshop track focused on river management. The **deadline** to submit a proposal is **October 9, 2014**; click [here](#) or contact Katherine Luscher [(503) 542-8397 or [kluscher@rivernetwork.org](mailto:kluscher@rivernetwork.org)] for more info.

The [Southeastern Massachusetts Pine Barrens Alliance](#) (SEMPBA) is hosting an [Eel River Talk and Tour](#) on **Saturday, October 11**. The program begins at 9:30 AM at the [SEMPBA Community Conservation Center](#), 204 Long Pond Road, Plymouth. DER Restoration Specialist [Alex Hackman](#) will give a presentation on the [Eel River Headwaters Restoration Project](#), followed by a tour of the Eel River Preserve. Space is limited; please write to [sempba@pinebarrensalliance.org](mailto:sempba@pinebarrensalliance.org) to sign up or for more info.

The sixth annual [Millers River Challenge](#), a family-friendly canoe and kayak race to support local youth programming and water safety, is scheduled to take place on **Saturday, October 11, 2014** in Orange, MA from 10:00 AM – 2:00 PM. There are race classes for youth, young adult and pro racers. Click [here](#), [here](#) or contact Shelly St. Cyr [(978) 424-7543, (978) 544-6100 (fax) or [cowslip\\_fairy@yahoo.com](mailto:cowslip_fairy@yahoo.com)] for more info.

The [International Water Association](#) (IWA) recently announced that a [joint IWA International Conference on the topics of Water Efficiency and Performance Assessment of Water Services](#) will be held for the first time in North America (in Cincinnati, OH from April 20-24, 2015). “This conference, a flagship event for water efficiency professionals worldwide, will include a **workshop to develop performance assessment metrics for water efficiency**, a sorely needed topic”. [Papers are being sought on a wide variety of topics](#). Abstracts are due by **October 15, 2014**; click [here](#) to download the Call for Papers.

**Remediation of contaminated sediments** commonly targets the complementary goals of protecting human health and the environment and restoring impaired environmental resources to beneficial use. Remediating contaminated sediment sites is challenging from a technical and risk-management perspective. An free online course entitled [Remedy Selection for Contaminated Sediments](#), hosted by the [Interstate Technology and Regulatory Council](#) (ITRC), will take place on **Thursday, October 16, 2014**, from 11:00 AM - 1:15 PM. This training relates to a new ITRC website, [Remedy Selection for Contaminated Sediments \(CS-2, 2014\)](#), intended to assist decision-makers in identifying which contaminated sediment management technology is most favorable based on an evaluation of site-specific physical, sediment, contaminant, and land and waterway use characteristics. The website provides a remedial selection framework to help identify favorable technologies, and identifies additional factors (feasibility, cost, stakeholder concerns, and others) that need to be considered as part of the remedy selection process. General categories of contaminated sediment remedial technologies covered in the guidance document include monitored natural recovery (MNR) and enhanced monitored natural recovery (EMNR), in situ treatment, capping (conventional and amended), and removal (dredging and excavation). Additional factors that need to be considered as part of the evaluation process are summarized (e.g., feasibility, cost, stakeholder and local government concerns, and others). Click [here](#) to sign up for or get more info on the 10/16 training course (which may be repeated on **December 11**) and [here](#) for info on a related course, [Incorporating Bioavailability Considerations into the Evaluation of Contaminated Sediment Sites](#), taking place on **Thursday, October 9**.

A free webinar entitled [Explaining Stream Behavior to the Public](#) is scheduled to take place on **Thursday, October 16, 2014** at 2:00 PM. Part of the [Restoration Webinar Series](#), a partnership between the National Oceanic and Atmospheric Administration (NOAA) and the U.S. Fish and Wildlife Service (USFWS), this session will be presented by Dr. Janine Castro, USFWS. The webinar will present a framework and a conceptual model for describing “how streams work” to a landowner or to the public to support stakeholder engagement for river restoration projects. Click [here](#) to register, [here](#) for more info on this and other upcoming presentations in this series, and [here](#) to access archived versions of [past presentations](#) in this series.

**Stormwater** is a **leading cause of damage to streams, lakes, and water supplies**. Fortunately, there are effective ways to prevent and fix polluted runoff. Leominster took a community approach to stormwater problems by removing 500 tons of debris and sediment from Monoosnoc Brook. Municipal boards, builders, engineers, and watershed and lake associations will gain practical information to make positive impacts in their own communities at [Community Stormwater Solutions in Action: Lessons from Monoosnoc Brook](#), a **free workshop** on **Friday, October 17, 2014** beginning at 9:00 AM at the [Leominster Public Library](#). Expert speakers will present guidance in selecting practices to achieve more pollutant reduction for less cost. The free 2-hour workshop will be followed by an optional one-hour tour of nearby bio-swales, tree box filters, porous walkways and other BMPs. **Pre-registration is requested** – RSVP to [mwc@commonwaters.org](mailto:mwc@commonwaters.org) or (978) 534-0379.

The [Fall 2014 Meeting](#) of the [New England Estuarine Research Society](#) (NEERS) will take place from **October 16-18** at [UConn's Avery Point Campus](#) in Groton, CT. “We will discuss science, management, and education issues concerning estuarine and coastal ecosystems. Avery Point contributes to the understanding – and solution – of

problems relating to the intersection of oceans and people, both through the expertise of the faculty and the education of its students who will help ensure sustainable uses of marine resources and coastal regions and cities.” Click [here](#) for more info.

With the release last fall of the [Federal Trail Accessibility Guidelines](#), trail builders, park administrators, land trusts, government officials and many others need to know how to build hiking trails that are sustainable and that provide access for everyone. The [Sustainable Trails for All Conference, October 16 & 17, 2014](#) taking place at [Crotched Mountain](#), Greenfield, NH, will help you understand the guidelines and will provide an overview of the techniques and hands-on skills needed to build sustainable hiking trails that provide enjoyment for all. The Conference will be immediately followed by a two-day workshop taking place at the same location: [Trail Construction for Universal Access Workshop: Design and Build a Section of Accessible Trail](#) on **October 18 & 19**. This will be a “hands-on” experience in building actual sections of accessible trails using a variety of tools, equipment and materials. Both sessions are led by Mass.-based, expert trail designer and builder **Peter S. Jensen**. Click [here](#) to register or for more info on both events, [here](#) to read a related article, or contact Deb DeCicco [(603) 547-1475 or [sustainabletrailsworkshops@gmail.com](mailto:sustainabletrailsworkshops@gmail.com)] with any questions.

Fall weekend sessions at the [Eagle Hill Institute](#) in Steuben, ME include [Using Freshwater Invertebrates to Evaluate Stream Water Quality](#) (from **October 17-19, 2014**) and [New England Freshwater Fish: An Identification Workshop](#) (from **November 6-8, 2014**). Click [here](#) for more info.

“When your non-profit was brand-new, did it have tremendous energy provided by eager founders? Did it have lots of seed money from donors and foundations? As the years passed and the goals of your organization were not yet achieved (you didn’t completely eradicate racism or save the planet), did founders and early donors slip away? It often happens. To prevent this, you need to have a long-term fundraising strategy from the beginning.” Learn how to do that and more in [Fundraising for the Long Haul: Advanced Tools for Activist Organizations](#), a course offered by and at the [Rowe Center](#) and scheduled to take place from **October 21-23, 2014** (Tuesday-Thursday). “[Kim Klein](#), author of the classic book [Fundraising for Social Change](#), will teach you how to conduct a capital campaign, launch an endowment, project income into the future, and ask your long-time donors for more money. For the greatest benefit, come with a colleague or a board member from your organization. If your non-profit organization is tired of lurching from one funding crisis to another, if you want to organize programs without first having to figure out how to finance them, then you need this essential, interactive, very practical session with one of the nation’s best-known fundraising trainers.” Click [here](#) to register for the workshop and [here](#) for more info.

The [Lawyers Clearinghouse](#) is offering three programs this fall that might be of interest to nonprofit organizations, their staff and/or board members: [Federal and State Fundraising Rules and Regulations Nonprofits Must Know](#) (on **Thursday, October 23**) a [Nonprofit Incorporation Workshop](#) (on **Tuesday, October 28**); and [Where is the Line? Board Duties and Management Responsibilities](#) (on **Wednesday, November 19**). All three programs take place in Boston and are either free or low-cost (\$25). Click [here](#) or contact [Ms. Machiko Sano Hewitt](#) to sign up or for more info.

The [Massachusetts Bays National Estuary Program](#) (MassBays) will host a series of upcoming free workshops entitled [Using Green Infrastructure to Treat and Control Stormwater in Coastal Communities](#). Four workshops will be held around the [MassBays planning area](#) to present a new handbook developed in partnership with EPA for departments of public works and planning, conservation commissions and agents, and nonprofits concerned about water quality in coastal ecosystems. Each workshop includes a case study and step-by-step process to install infrastructure that utilizes natural processes to treat and manage runoff. The workshops will be held on **Thursday October 23** (North Shore), **Friday, October 24** (Metro Boston), **Tuesday, October 28** (Cape Cod), and **Wednesday, October 29** (South Shore). Click [here](#) to sign up for your preferred workshop, or contact Lisa Engler [(617) 626-1230, [lisa.engler@state.ma.us](mailto:lisa.engler@state.ma.us)] for more info.

You are invited to take part in the [National Workshop on Large Landscape Conservation](#) (NWLLC), taking place on **October 23-24, 2014**, in Washington, D.C. The NWLLC will showcase conservation innovation



and landscape scale solutions across the public, private, and nonprofit sectors - from our urban centers to our wildest places. At the NWLLC, you will have the opportunity to hear how the large landscape approach is being adopted across North America to produce measurable benefits for rural and urban communities, enhance water quality and habitat, protect working forests and farmland, and make more efficient use of limited financial and human resources. You'll also have the chance to visit Mount Vernon, a green oasis in the middle of metropolitan Washington, D.C. and one of our most historic examples of a large landscape protected for the public's use and enjoyment. Senior officials from the US Departments of the Interior, Agriculture, and Defense, as well as leaders in state government, the private sector, non-profits and academia, will be among those participating. They, and you, will be sharing practical, results-oriented tactics and strategies that provide solutions to the landscape scale challenges we face, utilizing the latest information, science, financing mechanisms, and organizational tools. Click [here](#) to register and [here](#) for more info on the NWLLC.

Each fall, the [Mass. Department of Conservation and Recreation's Urban and Community Forestry Program](#), the Massachusetts Tree Wardens' and Foresters' Association, and the USDA Forest Service host a [Tree Steward Training](#) for Tree Board members, tree activists, interested citizens, Tree Wardens and other green professionals. This year's training will take place from **October 24-25, 2014** at the [Harvard Forest](#) in Petersham, MA. This Tree Steward Training provides foundation instruction in tree physiology, tree care, and other urban and community forestry issues with the aim of developing better tree stewardship in Massachusetts communities of all sizes. Speakers include urban and community forestry professionals from the state, the USDA Forest Service, green industries, and the Mass. Urban and Community Forestry Program. The registration **deadline** is **October 10**; click [here](#) (scroll down) to sign up, or contact Mollie Freilicher [[mollie.freilicher@state.ma.us](mailto:mollie.freilicher@state.ma.us), (413) -577-2966] for more info.

Taking place from **October 24-26, 2014** in downtown New Bedford, the [10th Annual Connecting for Change: A Bioneers Network Event](#), presented by the [Marion Institute](#), is an annual solutions-based gathering that brings together a diverse audience to create deep and positive change in their communities. This internationally-acclaimed event summons environmental, industry and social justice innovators to bring focus on food and farming, health and healing, green business, indigenous knowledge, environmental and social justice, women and youth empowerment, spirituality and sustainability, all working to catalyze a movement to heal our world. Click [here](#) for more info on the local event, and [here](#) for info on [Bioneers](#), which hosts the [national Bioneers Conference](#).

A two-session, online course entitled [Fluvial Geomorphology 101\(For Those Who Skipped it in College\)](#) is being offered on **Tuesday, October 28** and **Thursday, October 30** (at 2-4 PM each day). "Join former IECA President and returning speaker, [David T. Williams](#) for a live and on-demand webinar exploring the fundamentals of river system behavior, intricacies, and dynamics, as well as fluvial geomorphology's theories and principles; theoretical and applied approaches; and tools and technology relating to river forms, sedimentation, hydraulics, and streambank erosion and protection. We'll explore the fundamentals of fluvial geomorphology examining the evolution, structure, function, intricacies, and dynamics of river systems, and how fluvial geomorphology intersects with other disciplines (e.g., geology, ecology, engineering, etc.). After covering the basics, we'll delve deeper into watersheds, hillslope and stream hydrology, soil erosion and land degradation, river channel dynamics, sediment transport, flooding and flood management, floodplains, and deltas." Click [here](#) to register or for more info.

**How can you create a community-wide network of protected lands and trails by working with developers? What approaches to subdivision design can maximize natural resource protection and optimize the use of land, while saving money and improving your community's bottom line and quality of life?** Learn how Westford did it, and discuss how your community can also benefit, at a Mass. Audubon-sponsored [Shaping the Future of Your Community workshop](#) (followed by mobile tour), taking place on **Wednesday, October 29** from 10:00 AM – 3:00 PM at the [Westford Police Training Facility, 53 Main Street, Westford, MA](#). Light refreshments will be provided (brown bag lunch encouraged). While the event is free, pre-registration is required; register by calling (781) 259-2146 or writing to [shapingthefuture@massaudubon.org](mailto:shapingthefuture@massaudubon.org), or click [here](#) for more info. [You may also want to look at Mass. Audubon's 2007 guidebook [Shaping the Future of Your Community – A Citizen's Guide to Involvement in Community Planning, Land Protection, and Project Review](#).]

“CHANGE! - YOUR MODE - OUR FUTURE” is the theme of the [\*2014 Moving Together Conference\*](#), taking place on **Thursday, October 30, 2014** from 7:45 AM – 4:30 PM at the Boston Park Plaza Hotel. The event is hosted by the Mass. Department of Transportation (MassDOT)’s [GreenDOT](#) initiative, “MassDOT’s comprehensive sustainability policy that promotes the healthy transportation modes of walking, bicycling and transit. Attend workshops and panels that highlight current pedestrian, bicycle and public transportation topics; network with colleagues representing diverse interests from the public, academic and private sectors; participate in site visits and mobile workshops led by engineers and bicycle/pedestrian advocates; and present your ideas during interactive scoping sessions for upcoming bicycle and pedestrian master plans.” Click [here](#) to register and [here](#) for more info on the conference and related healthy transportation topics.

The [Massachusetts Land Trust Coalition](#) (MLTC) is currently (until **October 30, 2014**) seeking proposals for workshops for the **2015 Massachusetts Land Conservation Conference** which will be held on Saturday, March 21, 2015 in Worcester. “This annual, day-long training and networking event provides land trust board members and staff, parks administrators and advocates, watershed organizations, municipal commission members and others interested in land conservation with the information, skills, and connections they need to be most effective. The 2015 conference theme is ‘Gaining Ground: Conserving Our Common Wealth’. While the benefits of protecting our forests, farms and river corridors are well appreciated, green investment pays many other dividends. Land conservation and greening our communities contributes to better quality of life by creating more livable neighborhoods, preserving biodiversity, maintaining clean air and water, providing access to outdoor recreational opportunities and to fresh, local food. We welcome your workshop proposals addressing the conference theme or other land conservation topics.” Click [here](#) to submit a workshop proposal, or contact Kathy McGrath at [kmcgrath@massland.org](mailto:kmcgrath@massland.org) for more info.]

The [Harvard Forest](#), located in [Petersham, MA](#), is hosting a seminar presentation entitled [\*White-tailed deer in northeastern forests: understanding and assessing impacts\*](#) on **Friday, October 31, 2014** from 11:00 AM - 12:00 Noon. The presenter is botanist and deer hunter [Tom Rawinski](#) from the U.S. Forest Service. The seminar is free and open to the public; no pre-registration is required. You can either attend the program in person, or [join the seminar online](#). Click [here](#) or write to [aabarker@fas.harvard.edu](mailto:aabarker@fas.harvard.edu) for more info. [Click [here](#) to download Rawinski’s recent research paper on this same theme, which includes (on p.9) a **list of woody and herbaceous plant species preferred by deer**, and (on p.12) a **list of “low preference and avoided by deer” plant species**. See also “[Deer and Forests, and the People Who Love Them](#)”, an article by Rawinski that appeared in the No. 1, 2010 edition of [Massachusetts Wildlife Magazine](#).]

Coastal restoration and management go hand-in-hand by providing services and benefits via natural and built environments. They are pivotal for creating a pathway for sustainable job creation and economic growth, both of which are particularly critical at this time. [Restore America’s Estuaries](#) and [The Coastal Society](#) are co-hosting [\*Inspiring Action, Creating Resilience: the 7th National Summit on Coastal and Estuarine Restoration and 24th Biennial Meeting of The Coastal Society\*](#), taking place from **November 1-5, 2014** at the Gaylord National Convention Center, just outside Washington, DC. Click [here](#) to register or for more info.

The [EPA’s Green Infrastructure Webcast Series](#) has two programs coming up this fall: ***Innovative Financing for Green Infrastructure*** on **Tuesday, November 4**, and ***Green Infrastructure for Localized Flood Management***, on **Tuesday, December 2**. Both webinars run from 1:00 PM – 2:30 PM. Click [here](#) to sign up or for more info on these and archived webcasts, or contact Eva Birk [[birk.eva@epa.gov](mailto:birk.eva@epa.gov)] or Emily Ashton [[ashton.emily@epa.gov](mailto:ashton.emily@epa.gov)].

The Mass. Department of Conservation and Recreation (DCR), in partnership with the [Mass.Recreational Trail Advisory Board \(MARTAB\)](#), are hosting the [\*2014 Massachusetts Trails Conference\*](#), to be held on **Saturday, November 8, 2014** at the Double Tree Hotel and Conference Center in Leominster. The conference is funded through the [Recreational Trails Program](#), a grant program which supports motorized and non-motorized trail construction and enhancement across the Commonwealth. In keeping with this year’s theme, ***Trails for All***, the conference keynote speaker will be Janet Zeller, Accessibility Program Manager for the USDA Forest Service.

“Janet has worked in the field of accessibility for two decades and has helped develop and implement accessibility programs and policies at all levels of the agency. She also teaches accessibility and universal design for programs and facilities at a wide range of training sessions nationally. Please join the Massachusetts trail community for a day of learning, sharing, networking and, new to this year, opportunities for fieldtrips and getting your hands dirty out on the trails!” Click [here](#) or contact Amanda Lewis, Recreational Trails Program Coordinator, at (413) 586-8706 ext. 19 or [amanda.lewis@state.ma.us](mailto:amanda.lewis@state.ma.us), if you are interested in taking part in the 2014 conference, and click [here](#) to access presentations made at the [2013 Massachusetts Trails Conference](#).

“Landscape designers are often faced with the challenge of restoring gardens that have fallen into disrepair due to lack of maintenance, changing light availability, overzealous plants, or any number of other influences that change the landscape over time. Rediscovering (or introducing) the “good bones” at the heart of the landscape is one of the rewarding aspects of restoration work.” The [Ecological Landscape Alliance](#) (ELA) is hosting its annual [Season’s End Summit – Residential Restoration: Restoring the Beauty and Function of Residential Landscapes](#), taking place on **Wednesday, November 12, 2014** from 8:00 AM – 4:00 PM at the [Crane Estate](#) in Ipswich. The speakers are leading landscape professionals who will share their expertise and landscape restoration projects that demonstrate: reestablishing healthy soil and healthy plant communities; addressing diminished garden performance; restoring ecological function and landscape aesthetics; managing client expectations during a restoration; and coping with invasive plant challenges. The afternoon will include a tour of the Crane Estate restoration project, a panel discussion on invasive plants, and an inspiring wrap-up presentation by [Lucinda Brockway](#). Click [here](#) to sign up or for more info.

The staff and board of the [New England Grassroots Environment Fund](#) (NEGEF), which seeks to **energize and nurture long term civic engagement in local initiatives that create and maintain healthy, just, safe and environmentally sustainable communities**, invite you, friends, neighbors and your grassroots group to [Seeds and Songs of Change](#), an evening of fun, food and festive entertainment. “*Seeds & Songs for Change* is a game changer for our grassroots community – a new kind of celebration that blends music, technology and grassroots organizing to celebrate, showcase & invigorate the power of New England’s environmental grassroots movement, explore social change music and give us all a chance to give forward and build up the Grassroots Fund’s grant pool to support next year’s grassroots groups needing help.” Participants in this celebration, scheduled to take place on **Saturday, November 15** from 6:00 PM – 9:00 PM, are encouraged to **host house parties or other local venues** where the live-streamed festivities (including performances by [Tem Blessed](#) and [Paul Stookey](#) of Peter, Paul & Mary) can be viewed via a computer or other device with an Internet connection. Click [here](#) or [here](#) to sign up or for more info.

Abstracts are now being sought (until **November 17, 2014**) for the [American Water Resources Association](#) (AWRA)’s 2015 [AWRA Spring Specialty Conference on Water for Urban Areas](#), scheduled to take place in Los Angeles from March 30 – April 1, 2015. The Conference will provide an opportunity for water resource professionals to gather for discussions on the unique challenges associated with water resources for large urban areas - recognizing the need to effectively manage the increasing risks to their supplies and facilities and to prudently incorporate long-term resiliency within their systems, allowing for future flexibility to adapt to the impacts of these risks as they unfold. Click [here](#) for more info.

The [Ecological Landscape Alliance](#) (ELA) is hosting a webinar entitled [Landscaping at the Water’s Edge – An Ecological Approach](#) on **Wednesday, November 19** from 1:00 PM to 2:00 PM. The webinar will cover simple stormwater management strategies for residential properties that encourage infiltration of runoff on site, thus reducing pollutant loads to surface waters. Line drawings will illustrate how a degraded lakeshore property can be transformed to an attractive and highly functional site. With simple observations, ecologically-based design and low impact maintenance practices, you can protect, and even improve, the quality of our water resources. The presenter, Dr. Catherine Neal, is an Extension Professor and Specialist in Landscape Horticulture at the UNH, where she develops and conducts training in sustainable landscape practices that enhance biodiversity and protect our soil and water resources. Her areas of expertise include rain garden design and installation, pollinator habitat and meadow



establishment strategies for New England. She is author of several fact sheets and books, including [Landscaping at the Water's Edge](#). Click [here](#) to sign up or for more info.

“The **cornerstone of sustainability is behavior change**. If we are to move toward a sustainable future, we must encourage individuals and institutions to engage in a multitude of actions (e.g., waste reduction, water and energy efficiency, modal transportation changes, etc.). To date, **most programs to encourage such activities have relied upon disseminating information. Research demonstrates, however, that simply providing information has little or no effect on what people or institutions do.** But if not ads, brochures or booklets, then what? Over the last decade, a new approach, called [community-based social marketing](#) (CBSM), has emerged as an effective alternative for delivering programs to foster sustainable behavior”. **Doug McKenzie-Mohr**, author of [Fostering Sustainable Behavior](#) and one of the leading experts on CBSM, will be delivering introductory and advanced community-based social marketing training at Tufts University, taking place from **November 17-18** (intro) and **November 19-20** (advanced). These workshops will be of particular interest to governmental agencies working to promote energy efficiency, waste reduction, water efficiency, sustainable food consumption, modal transportation changes and other sustainable actions. Click [here](#) to register for or more info on these upcoming sessions.

[Biodiversity for a Livable Climate](#) will be presenting a conference entitled [Restoring Ecosystems to Reverse Global Warming](#) from **November 21-23, 2014** at Tufts University’s Medford campus. Climate experts, advocates, farmers, scientists, policymakers and mores will come together to discuss the potential of the biosphere to address emissions and remove excess carbon dioxide from the atmosphere. Biological systems have the potential to re-establish healthy lands and waters and to cool the earth’s surface. The conference will be followed by an *International Action Week* on November 24-30. Click [here](#) to register or for more info, or write to [Climate2014@bio4climate.org](mailto:Climate2014@bio4climate.org).

The [Society for Ecological Restoration](#) (SER) recently put out a [Call for Proposals for Symposia, Workshops and pre-Conference Training Courses](#) for [SER’s 6th World Conference on Ecological Restoration](#). SER2015 will be held in Manchester, England from 23-27th August 2015, with pre-Conference Training Courses taking place at Manchester Metropolitan University on Friday, the 21st and Saturday, the 22nd of August. The Conference theme is [Towards Resilient Ecosystems: Restoring the Urban, the Rural and the Wild](#). The **deadline** for proposal submissions is **December 12, 2014**; click [here](#) to submit a proposal or for more info.

The [International Low Impact Development \(LID\) Conference 2015](#) will be taking place in Houston, TX from **January 19-21, 2015**. The Conference will highlight new and continuing work including research developments and community adoption of LID throughout the U.S. and internationally. In addition, this conference will focus on the application of LID technology in low-relief coastal areas, and in the Southwest region of the U.S., and will also include a mini-symposium on arid region LID. Click [here](#) to register or for more info.

Last but not least: you might want to participate in one or more **upcoming webinars** on various aspects of **Green Infrastructure**. These include: [Green Infrastructure and Environmental Health and Safety](#) (on **Wednesday, October 1**, 4:00 PM - 5:45 PM); [Innovative Financing for Green Infrastructure](#) (on **Tuesday, November 4**, 1:00 PM - 2:30 PM); [Green Infrastructure and Coastal Resilience](#) (on **Wednesday, November 5**, 4:00 PM - 5:45 PM); [Green Infrastructure for Localized Flood Management](#) (on **Tuesday, December 2**, 1:00 PM - 2:30 PM); [Green Infrastructure and Public Health](#) (on **Wednesday, December 3**, 4:00 PM - 5:45 PM); [Green Infrastructure, Urban Planning, and Economic Development](#) (on **Wednesday, January 7, 2015**, 4:00 PM - 5:45 PM); and [Urban Greening and Ecosystem Services](#) (on **Wednesday, February 4, 2015**, from 4:00 PM - 5:45 PM).

[> Return to top of document](#)

## Online Resources

*(Descriptive text provided is obtained from the web pages themselves.)*

The EPA's [EnviroAtlas](#) website is designed to help communities and researchers make informed policy and planning decisions related to the environment and ecosystems. EnviroAtlas includes over 300 data layers, letting users analyze how decisions affect ecosystems and their ability to provide benefits (often referred to as **ecosystem services**). Key components of EnviroAtlas include: a multi-scaled [Interactive Map](#); the [Eco-Health Relationship Browser](#); [Ecosystem services](#) information; [GIS and analysis tools](#); and [publications and other resources](#).

EPA's [How's my Waterway? App](#), a mobile-friendly website that enables users to easily access water quality information for their local lakes, rivers, and streams, was updated earlier this year to, among other things, include drinking water source protection areas, watershed info, info on local permits that limit pollutant discharges, and National Fish Habitat Partnerships to restore waterways to protect and improve fish habitats. Click [here](#) to access a 4/23/14 webcast in which EPA water scientist Doug Norton, who developed How's My Waterway, discussed the new enhancements and provided practical examples of how the tool can be used by various audiences. [Related online tools include: [SwimGuide](#), which shows you where your closest beaches are and gives you real-time status updates and historical trends on their condition; [River View](#), which lets you view and share pictures of your favorite river; [Creek Watch](#), which allows you to help monitor the health of your local watershed by snapping a picture and reporting how much water and trash you see; and [My Green Apps](#), a collection of even more water and other environment apps.]

The U.S. EPA has several web pages and a blog posting devoted to various aspects of **Harmful Algal Blooms** (HABs). There are two EPA **HAB-themed web pages**, the [first](#) intended for a general audience, and the [second](#) with more technical resources, including info on **red tide**; a web page on [blue-green algae, aka cyanobacteria](#); and a number of archived presentations and webinars on HAB-related subjects, including: [Overview of Harmful Algal Blooms and their Impacts in Marine and Freshwater Ecosystems](#) (June 25, 2013); [Perspectives on the Impact to Public Health of Harmful Algal Blooms](#) (July 25, 2013); [How to Track a HAB: New Technologies and Methods for Identifying and Monitoring Harmful Algal Blooms](#) (August 20, 2013); and [Linking Nutrient Pollution and HABs: State of the Science and EPA Actions](#) (September 25, 2013). There is also a July 17, 2014 blog posting entitled [Harmful Algal Blooms? There's an App for That!](#). Other recent EPA-sponsored, HAB-related webinars that should eventually be available online, probably at [this](#) location, include [The Role of Citizen Scientists in Harmful Algal Bloom Monitoring and Response](#) (May 29, 2014); [When Green Goes Bad: An Interdisciplinary Approach to Better Understand Cyanobacteria, Nutrients, and Lakes](#) (June 2014 – click [here](#) for more info) and [How to Protect Your Drinking Water From Harmful Algal Blooms](#) (July 16, 2014).

The [September, 2014](#) edition (#96) of the [EPA's Nonpoint Source News-Notes newsletter](#) contains several items of interest, including (on pp. 12-14) an article about [Regional Clean Water Guidelines for the Fertilization of Urban Turf](#), a recently-released report produced by the [Northeast Voluntary Turf Fertilizer Initiative](#) (a project of the New England Interstate Water Pollution Control Commission, [NEIWPPCC](#)).

**Is your community prepared for a possible flood?** The EPA's [Flood Resilience Checklist](#), [released](#) in July, offers strategies that communities can consider, such as conserving land in flood-prone areas; directing new development to safer areas; and using green infrastructure approaches, such as installing rain gardens, to manage stormwater. "Flooding from major storms has cost lives and caused billions of dollars in damage," said EPA Administrator Gina McCarthy. "With climate change, storms are likely to become even more powerful in many regions of the country. Where and how communities build will have long-term impacts on their flood resilience, and on air and water quality and health and safety. This checklist will help flood-prone communities think through these issues and come up with the solutions that work best for them." The Checklist is part of a new report, [Planning for Flood Recovery and Long-Term Resilience in Vermont: Smart Growth Approaches for Disaster-Resilient Communities](#), a product of EPA's year-long [Smart Growth Implementation Assistance](#) project in Vermont, where EPA worked with the Federal Emergency Management Agency (FEMA) and state agencies, including the Agency of Commerce and Community Development, to help communities recover from Tropical Storm Irene. Although

the project focused on Vermont, the policy options and checklist in the report can help any community seeking to become more flood resilient. As part of the Smart Growth Implementation Assistance project, FEMA and EPA also supported the development of [Vermont State Agency Policy Options](#), a report that provides more detailed suggestions for how Vermont state agencies can coordinate their efforts to plan for, respond to, and recover from floods. [Related resources are posted in the [July press release](#), at the EPA's new [Disaster Recovery and Resilience web page](#) or the State of Vermont's [Plan Today for Tomorrow's Flood page](#). You can also write to [smartgrowth@epa.gov](mailto:smartgrowth@epa.gov) to request the slides and recording of a 8/13/14 webinar entitled [Flood Resilience and Recovery Assistance: Lessons Learned from Vermont](#).]

This past July, the [FEMA Risk MAP Program](#) unveiled a redesigned FEMA [Flood Map Service Center](#) (MSC). A streamlined design and interface, significant technical improvements, and a set of new user features will enable the new MSC to serve as both an intuitive and user-friendly source of information for the general public and a powerful flood hazard product portal for those working in flood insurance, hazard mitigation, and floodplain management. Click [here](#) for more details about the MSC redesign.

[i-Tree](#), a state-of-the-art, peer-reviewed software suite from the **U.S. Forest Service**, provides urban and community forestry analysis and benefits assessment tools which help communities of all sizes strengthen their urban forest management and advocacy efforts by **quantifying the environmental services that trees provide** and the structure of the urban forest. The suite of i-Tree tools includes: [i-Tree Eco](#), which provides a broad picture of the entire urban forest, designed to use field data from complete inventories or randomly located plots throughout a community along with local hourly air pollution and meteorological data to quantify urban forest structure, environmental effects, and values to communities; and [i-Tree Hydro](#) (beta), an application designed to **simulate the effects of changes in tree and impervious cover characteristics within a watershed on stream flow and water quality**. It was designed specifically to handle urban vegetation effects, so urban natural resource managers, stormwater managers, and urban planners can quantify the impacts of changes in tree and impervious cover on local hydrology to aid in management and planning decisions.

[Safeguarding Wildlife from Climate Change](#), the title of a webinar series developed by the U.S. Fish and Wildlife Service (USFWS) and the National Wildlife Federation (NWF) and facilitated by the USFWS's National Conservation Training Center (NCTC), is intended to increase communication and transfer of technical information between conservation professionals regarding the increasing challenges from climate change, and evaluating future effects to fish and wildlife species and ecosystems. Past presentations in the series, [available online](#), include: *Use of Natural and Nature-based Features to Enhance the Resilience of Coastal Ecosystems* (from November 13 2013), and *Downscaling Climate Change Models to Local Site Conditions: Effects of Sea-level Rise and Extreme Events to Coastal Habitats and their Wildlife* (from January 16, 2013). Click [here](#) to access these and other past webinars as well as to learn about upcoming webinars in this series.

With [funding from the US EPA, the Environmental Finance Center at the University of North Carolina at Chapel Hill](#) recently put online a [Catalog of Green Infrastructure and Stormwater Finance Publications](#). The catalog takes the form of an MS Excel table, which provides info on and links to forty-six publications on green infrastructure for stormwater management that have finance relevance. A user can filter and sort the table according to location, audience, as well as several other criteria. [Click [here](#) for info about upcoming and archived **free EPA-sponsored webinars on green infrastructure-related topics**. You may also want to check out the EPA's new [Green Infrastructure for Climate Resiliency](#) webpage, which demonstrates (via an [infographic](#), [fact sheet](#) and other means) how green infrastructure can be used as an important tool for building community resilience to climate change impacts, such as increased heavy rainfall and the "heat island" effect.]

The [Waquoit Bay Reserve's Coastal Training Program](#) recently posted online most of the presentations made at the [2nd Annual Cape Coastal Conference: Implementing Strategies to Improve Water Quality and Build Coastal Resilience](#), which took place on June 5-6, 2014 at the [Tilden Arts Center, Cape Cod Community College](#) in West Barnstable. Click [here](#) to access the presentations, [here](#) to download the Conference brochure, or contact



Tonna-Marie Rogers, Coastal Training Program Coordinator, at (508) 457-0495 ext. 110 or [tonna-marie.surgeon-rogers@state.ma.us](mailto:tonna-marie.surgeon-rogers@state.ma.us) for more info. [You may also want to check out

The U.S. Geological Survey (USGS) case study [\*\*Restoring a Stream, Restoring a Community – Urban watershed restoration fosters community improvement\*\*](#), released in May of last year, focuses on the Watts Branch of the Anacostia River in Washington, D.C. and Maryland's Prince George's County. The two-page document details how restoration work on this urban tributary has had a substantial positive impact on the local economy. Click [here](#) to read the case study as well as to learn about the methodology employed on this and similar case studies to calculate the economic benefits of U.S. Department of Interior (DOI)-funded restoration projects.

The **topographic map** remains an indispensable tool for everyday use in government, science, industry, land management planning, and leisure. As physical and cultural features change over time, maps are updated, revised and new editions printed. The USGS, which in 2009 launched [\*\*US Topo\*\*](#), its new generation of topographic maps in electronic form, is now complementing them with the release of the [\*\*USGS Historical Topographic Map Collection\*\*](#) (HTMC), **high-resolution scans of more than 178,000 historical topographic maps of the U.S.** While out of date, historical maps are often useful to scientists, historians, environmentalists, genealogists and others researching a particular geographic location or area. A series of maps of the same area published over a period of time can show how an area looked before development, and provide a detailed view of changes over time. The goal of the HTMC is to scan all scales and all editions of the more than [193,000 topographic maps](#) published by the USGS since the inception of the topographic mapping program in 1884. GeoPDF versions of HTMC maps can be downloaded free of charge; click [here](#) to search the HTMC by map name, or geographically via the '[Map Locator and Downloader](#)' application. [Scans of historical USGS maps are also viewable via the [\*\*Historic USGS Maps of New England & NY\*\*](#) website, maintained by the University of New Hampshire.]

[> Return to top of document](#)

## **Non-government On-line Resources**

*(in rough alphabetical order – the following are offered for information purposes only and are not an endorsement of the items listed below. Descriptive text provided is obtained from the web pages themselves.)*

### **Biodiversity Heritage Library (BHL)**

<http://www.biodiversitylibrary.org/>

The BHL is a [consortium of natural history and botanical libraries](#) that cooperate to digitize the [legacy literature of biodiversity held in their collections](#) and to make that literature available for open access and responsible use as a part of a global "biodiversity commons." In partnership with the [Internet Archive](#) and through local digitization efforts, the BHL has [digitized millions of pages of taxonomic literature](#), representing tens of thousands of titles and over 100,000 volumes (many of which are no longer in print). These include: [\*Inland Fishes of Massachusetts\*](#); [\*Massachusetts Field Guide to Inland Wetland Plants\*](#); [\*Suburban and Mountain Parks in Massachusetts\*](#) (an article from 1903); and [\*Natural History of the Fishes of Massachusetts\*](#) (from 1833).

### **Consortium for Climate Change Risk in the Northeast (CCRUN)**

<http://ccrun.org/home>

CCRUN (whose territory extends from MA to PA) "is designed to address the complex challenges that are associated with densely populated, highly interconnected urban areas, such as: urban heat island effects; poor air quality; intense coastal development, and multifunctional settlement along inland waterways; complex overlapping institutional jurisdictions; integrated infrastructure systems; and highly diverse, and in some cases, fragile socio-economic communities. CCRUN's projects are focused in four broad sectors: Water, Coasts, Health, and Green Infrastructure. Research in each of these sectors is linked through the cross-cutting themes of climate change and community vulnerability, the latter of which is especially important in considerations of environmental justice and

equity.” Resources at the CCRUN website include archived versions of presentations made as part of its [Seminar Series on Green Infrastructure, Climate, and Cities](#), such as: *Planning Green Infrastructure with Stakeholder Input*; *Green Infrastructure: Enhancing Cities by Managing Stormwater*; and *Environmental Governance as a System: Individuals, Organizations, and Stewardship Networks*. [Upcoming webinars](#) in the series include: *Green Infrastructure and Environmental Health and Safety* (10/1); *Green Infrastructure and Coastal Resilience* (11/5) and *Urban Greening and Ecosystem Services* (2/4/15)

### **Ecosia**

<http://ecosia.org/>

Ecosia is a search engine that contributes 80 percent of its revenue to rainforest protection. Since 2010, Ecosia has contributed nearly \$1.7 million to conservation, and for two years (that began a year ago), Ecosia will contribute this funding to [The Nature Conservancy \(TNC\)’s Plant a Billion Trees](#) program, with a guaranteed minimum payment of \$150,000 per year. The Plant a Billion Trees campaign was launched by TNC in 2008 to restore Brazil’s Atlantic Forest, which is on the brink of extinction due to pressures of urban expansion, agriculture, ranching and illegal logging. This unprecedented major restoration initiative will reforest 1 million acres and connect more than a million acres of forest remnants, creating new forest corridors to improve the resilience of this critical and degraded ecosystem.

### **Ecosystem Evaluation Toolkit**

<http://esvaluation.org>

Developed by the nonprofit group [Earth Economics](#), The Ecosystem Valuation Toolkit is a comprehensive collection of online tools and resources designed to help planners, watershed managers, forest owners, natural resource agencies, scholars, and businesses research and communicate the value of ecosystem services. The Ecosystem Valuation Toolkit offers (1) SERVES, a self-service tool for ecosystem service valuation and natural capital appraisal; (2) a Researcher’s Library, with a community research platform for ecosystem service valuation studies; (3) the Repository, the world’s largest database of published valuation data; and (4) the Resource Library, materials for education, best practices, communication, policy, and more.

### **Financing Sustainable Water**

<http://www.financingsustainablewater.org>

Recently launched by the nonprofit [Alliance for Water Efficiency](#) (AWE), the Financing Sustainable Water initiative was created to help water managers build better rate structures that improve revenue stability, yet encourage resource efficiency. Aimed at combating the common misperception that conservation makes rates rise, the Financing Sustainable Water initiative was designed to provide helpful tools and data to water managers, elected officials, and consumers. Resources at this page include the handbook [Building Better Water Rates for an Uncertain World: Balancing Revenue Management, Resource Efficiency and Fiscal Sustainability](#), which provides guidance on developing, evaluating, and implementing efficiency-oriented rate structures. Click [here](#) for more info and [here](#) to view an archived presentation on [Financing Sustainable Water](#). [See also [18 Reasons Why A Public Water Supplier Might Want To Pursue Water Conservation](#), an advisory document posted on the [New England Water Works Association](#)’s website.]

---

### **Funds2Orgs**

<http://www.funds2orgs.com>

Funds2Orgs assists charities, schools and civic groups across the country with “**shoe drive**” fundraisers. Groups seeking to raise funds collect gently worn, used shoes, or [athletic shoes, clothes and handbags](#), and turn them over to Funds2Orgs, who then pays the sponsoring charity (per pound of collected material) for them. Funds2Orgs then sends the items to [micro-enterprises](#) in developing nations, where individuals create a better life for themselves and their families by repurposing and selling them within their communities. Your charity gets a financial boost while

assisting developing nations, all while keeping these items out of US landfills. Funds2Orgs assists with marketing, public relations, event support, and ongoing coaching to ensure that your drive is a success. The average shoe drive runs approximately 60-90 days, giving your group the time you need to market, collect, and consolidate your collection before the Funds2Orgs Logistics Team arranges pick up. Within 48 hours of the Funds2Orgs driver collecting your shoes and other items, your charity team will be issued a check. Click [here](#) for more info.

### **Grassroots Grantmakers**

<http://www.grassrootsgrantmakers.org>

Grassroots Grantmakers “is a network of people, organizations and institutions who are united by their commitment to: welcoming, vibrant, resilient, and just communities where all really means all; funding practice that is about ‘walking alongside’ citizens with respect and humility; learning that connects theory with practice and is enriched by many perspectives; and growing opportunities for groups that everyday people form for mutual aid, delight and collective action to move their ideas into action” (click [here](#) for more info). Resources at this page include: [profiles of grassroots grantmakers](#) across the country (some of which are active in Massachusetts); upcoming and [archived webinars](#) on grassroots grantmaking; [“citizen sector” resources](#); and [words of wisdom about small-sized grants](#). [Click [here](#) to access a [blog post](#) and an [archived webinar](#) on grassroots grantmaking hosted by [Community Matters](#); and [here](#) to download a 26-page document, [A Short Course on Grassroots Grantmaking](#).]

### **Grassroots Wildlife Conservation (GWC)**

<http://www.grassrootswildlife.org>

Founded by Concord, MA-based biologist/ecologist [Bryan Windmiller](#), GWC’s goal is to engage the citizens of Massachusetts and New England in hands-on efforts to monitor, enhance, and protect rare or threatened populations of wild animal and plant species “while helping you and your families learn more about the diversity and wonder of the natural world around you. With the help of both scientists and people like you, rare plants and animals can flourish together with us—in cities, suburbs, and rural areas.” GWC invites anyone to [volunteer](#) on [ongoing](#) and new conservation projects and/or [make a financial contribution](#) to support its conservation work.

### **Illuminating Minds Media™**

<http://www.illuminatingmindsmedia.com/sd-creations.html>

Run by documentary filmmaker [Shervin A. Arya](#), and headquartered in Somerville, Illuminating Minds Media is a cloud-based media production company focused on in-depth, content-driven and innovative films and media. A remotely coordinated production workflow streamlines a team of collaborators that includes production engineers, digital media professionals, musicians and filmmakers. Shervin’s interest in natural history and passion for filmmaking is converged in a blend of science-driven media initiatives and artful storytelling for producing engaging and in-depth documentation of topics in the natural world. Click [here](#) for info on the company’s science-themed projects, which include Episodes [1](#) (“A Natural History”), [2](#) (“A Complicated Path”) and [3](#) (“The Mystic River Herring Run”) of the [River Herring Migration Series](#) of films (click [here](#) to learn about the Kickstarter campaign that funded the series).

### **Locacious**

<http://www.locacious.net>

Locacious is a [free app available for iPhone](#) that allows users to **create, distribute, discover and enjoy audio walking tours worldwide**. “Walking tours are a great way to explore, and having guides from all over the world accompany you and offering their perspective can enrich both real and virtual travel. But Locacious is a two-way street, giving you the ability to create your own tours. So you can easily share your knowledge, stories, and advice about any location in the world! Whether you are someone interested in preserving the history of your community, an architecture aficionado, a parks enthusiast, a music maven, an expert on local street art, or a professional tour guide – if you want to hear about new places or share your own stories, Locacious is for you.” Click [here](#) for info



on Locacious audio tours set up for numerous locations in the [Blackstone Valley of Mass. and RI](#), and [here](#) for [Nantucket](#).

### One Percent for the Planet

<http://onepercentfortheplanet.org>

1% FTP was founded in 2002 by outdoor entrepreneurs Yvon Chouinard (founder of Patagonia) and Craig Mathews (owner of Blue Ribbon Flies), who understood it was good business to protect the natural resources that kept them in business. Since then, 1% for the Planet has grown into a global movement of [more than 1200 member companies](#) in 48 countries, all donating at least 1% of annual sales to sustainability initiatives. The 3,300 environmental organizations that have 1% FTP nonprofit partner status (in Massachusetts, that includes the [Appalachian Mountain Club](#), the [Berkshire Natural Resources Council](#), the [Connecticut River Watershed Council](#), the [Essex County Greenbelt Association](#) and the [Lowell Parks & Conservation Trust](#)) are eligible to receive donations from 1% FTP and/or its member companies (click [here](#) to apply to be a 1% FTP nonprofit partner).

### Rain Ready

<http://rainready.org/>

Recently launched by the [Center for Neighborhood Technology](#) (CNT), a Chicago-based nonprofit with expertise in water management and urban flooding, the Rain Ready website is intended to help individuals, businesses, and communities find solutions to the problem of too much or too little water. CNT's *Rain Ready* initiative offers a suite of policies and practices to help residents, communities, and states plan for weather events associated with global climate change. *Rain Ready* helps citizens and their municipal and state leaders, approach the challenges of flooding, water shortage, and/or water pollution in customized and cost-effective ways. Click [here](#) for more info.

### Secretary's Advisory Group on Energy and Environmental Education (SAGEEE)

<http://sageee.wordpress.com>

SAGEEE's purposes are: to foster environmental literacy within the Commonwealth of Massachusetts in order to enhance and sustain a high quality of life; to encourage voluntary compliance with sound environmental practices; and to serve as a coordinating forum among agencies and organizations concerned with the environment in the Commonwealth and between such agencies and organizations in this state and those in other states and at the federal level. To this end, SAGEEE assesses environmental education in the state, to determine key programs that are being offered and where there may be gaps. **Teachers, environmental educators, environmental organizations and clubs, businesses, and government officials** are asked to participate in the **Massachusetts Environmental Literacy Plan Stakeholder Survey**, which SAGEEE will use to help develop a state [Environmental Literacy Plan](#) (ELP). Click on <http://www.surveymonkey.com/s/MASSELP> to access and fill out the survey. Students ages 12 – 21 years old are also asked to fill out a Student Survey, which can be found at <https://www.surveymonkey.com/s/teenELP>. Write to [Robin Organ](#) for more info.

### SPLASHH

<http://splashh.org>

While its content is currently sparse, until additional reports from more [projects](#) and [locations](#) are posted, SPLASHH (which stands for "Student Programs Like Aquatic Science Sampling Headquarters") is a **crowdsourcing platform for reporting on the condition of our waterways**. "As a social network, SPLASHH will engage users [students, teachers, citizen scientists, and researchers] to share, discuss and visually consume information about water. Our mission is to inspire water conservation through awareness in hopes of tackling one of the biggest global challenges that we face as a society, the sustainable use of water." Click [here](#) for more info.

## The Great Marsh Tour

<http://www.hydrn.com/common/index.php?pn=tour>

The [Great Marsh Tour](#) offers visitors to the North Shore an on-the-go way to learn about New England's largest continuous coastal marsh habitat. Developed by [MassBays](#) and the [Merrimack Valley Planning Commission](#), through a grant from the [Essex National Heritage Commission](#), the tour educates visitors using any one of several free smartphone applications to view [Quick Response \(QR\) codes](#). More than 75 QR codes, found on signs throughout the marsh system, link to **short informational videos describing the marsh's environmental and cultural importance**. The QR coded signs are located in Gloucester, Essex, Ipswich, Rowley, Newburyport, Newbury, Amesbury, and Salisbury. Click [here](#) (scroll down to "Partnership Grant Spotlight") for more info. [Click [here](#) and [here](#) for more info on the history and use of QR codes, and [here](#) to embellish QR codes with color, your organization's name or logo embedded into the image, etc.]

## The State of the World's Rivers

<http://www.internationalrivers.org/worldsrivers>

Recently launched by [International Rivers](#), [The State of the World's Rivers](#) "is a first-of-its-kind interactive online database that illustrates the role that dams have played in impoverishing the health of the world's rivers. The database illustrates how decades of dam-building have put many of the world's major river basins on life support, degrading biodiversity and water quality. Use the State of the World's Rivers to understand the health of rivers in your own region, and to advocate for change in how river basins are managed. By reducing fragmentation and improving water quality as a result of dam-building, we can improve the health of the world's river ecosystems." Click [here](#) to view a six-minute video that explains how to use this new tool.

## The Stewardship Network: New England

<http://newengland.stewardshipnetwork.org>

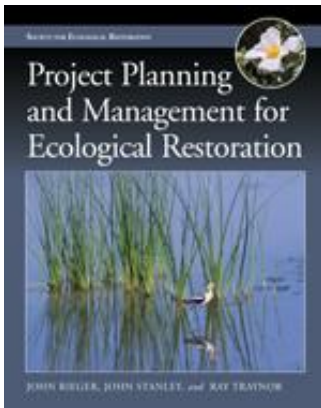
The Stewardship Network: New England was launched in 2013 and is led by [UNH Cooperative Extension](#). This New England effort is part of a larger grassroots effort led by [The Stewardship Network](#). The aim of these Networks is to connect, equip, and mobilize individuals, organizations, and businesses through community conservation collaboratives (see [video](#)). The Stewardship Network: New England seeks to support the efforts of people and organizations to care for and study the lands and waters in their communities. Resources on this page include: calendars of upcoming stewardship [training](#) and [volunteer](#) opportunities (while most of these are in NH, groups located elsewhere in New England are encouraged to [post their activities](#)); a [two-page tip sheet on Working with Stewardship Volunteers](#); [announcements](#) on various regional stewardship topics; and [citizen science](#), including "[Stories from the Field](#)", a compilation of stories about volunteers assisting scientists in their understanding of New England's natural environment (your submissions are welcome). [Click [here](#) to view an archived webcast from September 10, 2014 entitled [River of the Undammed: Metapopulation Dynamics, Recovery and Resilience of an aquatic stream community in Eastern Connecticut](#).]

[> Return to top of document](#)

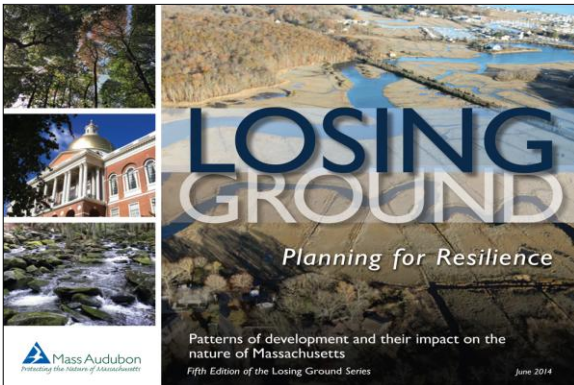


## Publications, Videos, etc.

(the following are offered for information purposes only and are not an endorsement of the items listed below. Descriptive text provided is obtained from the web pages themselves.)

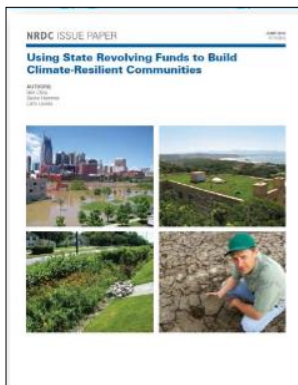


**[Project Planning and Management for Ecological Restoration](#)**, a recent addition to Island Press' Science and Practice of Ecological Restoration Series, a [partnership with the Society of Ecological Restoration](#) (SER), "presents principles of sound planning and management that will greatly increase the likelihood that completed projects will meet stakeholder expectations. Authors John Rieger, John Stanley, and Ray Traynor have been involved in restoration activities for over 30 years and were part of the small group of restorationists who recognized the need for a professional organization that led to the founding of SER in 1987. This book comes out of their experiences practicing restoration, conducting research, and developing and refining new techniques and methods. In the book, the authors describe a process for planning and managing an ecological restoration project using a simple, four-faceted approach: planning, design, implementation, and aftercare. Throughout, the authors show how to incorporate principles of landscape ecology, hydrology, soil science, wildlife biology, genetics, and other scientific disciplines into project design and implementation. Illustrations, checklists, and tables are included to help practitioners recognize and avoid potential problems that may arise." Click [here](#) to order the book and [here](#) for more info.



"Over the past 40 years, the landscape of Massachusetts has been transformed by new residential and commercial development. Eastern and southeastern Massachusetts have undergone the most change, but virtually every community in the Commonwealth has experienced rapid growth driven by economic and demographic factors. Starting in 1991, [Mass Audubon](#) has analyzed these changes every five years using the most up-to-date technology and methods, providing conservationists, town planners, and agencies with information for planning and advocacy. The results are published in our [Losing Ground](#) reports." **[Losing Ground: Planning for Resilience](#)**, the most recent report in this series,

released earlier this year, "illustrates how key decisions we make now about which land to develop and which land to conserve will impact our future health, economy and security...Over the next century, residential and commercial development will challenge the character of nearly 2.5 million acres of undeveloped land in the Commonwealth of Massachusetts. At the same time, climate change will disrupt our daily lives in unprecedented and often unwelcome ways, and will alter the way in which we interact with the natural world. Targeted land protection and sound planning can ensure that we continue to benefit from a growing economy, clean air and water, and healthy communities." Click [here](#) to read the press release, and [here](#) to read an article, and [here](#) for an optimistic editorial from the Boston Globe on the report. Mass. Audubon's Jack Clarke highlights key elements of the report in another [article](#), and Mass. Audubon's Karen Heymann offers a road map for action [here](#). You can also [listen to Mass Audubon President Henry Tepper discussing Losing Ground](#) on WBUR's [Radio Boston](#) this past June.

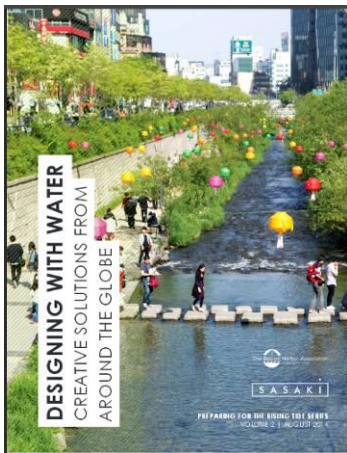


The [National Resources Defense Council](#) (NRDC) recently issued two papers - **[Waste Less, Pollute Less: Using Urban Water Conservation to Advance Clean Water Act Compliance](#)** and **[Using State Revolving Funds to Build Climate-Resilient Communities](#)**. The first paper, by [Larry Levine](#), explains how urban water conservation can help address water quality and water supply needs at the same time, while keeping costs down for ratepayers. The paper shows how programs and policies that reduce indoor and outdoor water use can help achieve cost-effective compliance with sewer overflow, sewage collection and treatment, and stormwater obligations. The second paper, by [Ben Chou](#), explains how the Clean Water State Revolving Funds and Drinking



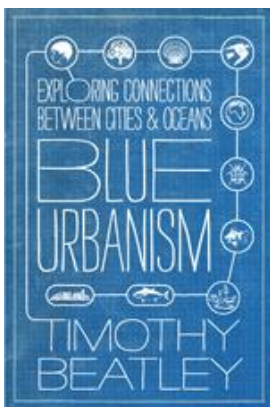
Water State Revolving Funds can better support and incorporate measures to make communities more resilient to climate change risks. It demonstrates to local, state, and federal decision makers how water efficiency, green infrastructure, and flood resiliency policies can maximize the effectiveness of State Revolving Fund investments. [Click [here](#) to see [Climate Preparedness: Building Resilient Communities with Water-Smart Policies and Funding](#), a PowerPoint presentation by Larry and Ben this past August and hosted by [Climate Communities](#).]

**Cape Cod's** sole source aquifer, ponds and embayments are under siege from a host of pollutants and threats. It is estimated that 80% of the Cape's nutrient loading problem is attributable to on-site septic systems. In response, the [Association to Preserve Cape Cod](#) (APCC) and [UnderCurrent Productions](#) have collaborated on the [Saving Paradise Video Series](#), intended to educate the public on the issues and potential solutions for Cape Cod's wastewater challenge. Video #2 in the series, [Water For Oysters](#), looks at the potential for shellfish aquaculture to clean up Cape Cod's troubled estuaries, with a behind-the-scenes view of life on an oyster farm, input from experts at the Marine Biological Laboratory and Cape Cod Cooperative Extension, and a captivating oyster water filtration time-lapse. The video provides a comprehensive perspective on a little-known, yet promising, adaptive wastewater management strategy. [The goal of Video #1, [Saving Paradise: Cape Cod's Water at Risk](#), is to explain the personal connection each individual on Cape Cod has to the Cape's ponds, bays, and drinking water, and how nutrient pollution from septic systems, fertilizers, and stormwater runoff directly impacts the quality of life on the Cape.] Click [here](#) to view these and other videos posted on the APCC's website, and [here](#) for related info. [On a different, but equally interesting, Cape Cod-related topic: click [here](#) to learn about and view three videos posted on the [MA NRCS website](#) relating to [efforts to safeguard and restore habitat critical to the survival of the New England Cottontail rabbit](#).]



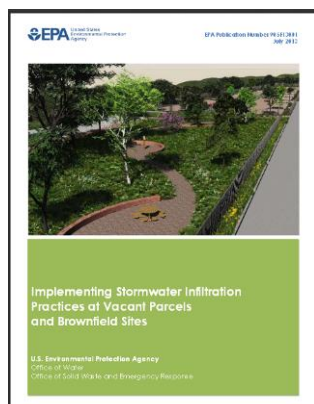
[Designing with Water: Creative Solutions from around the Globe](#), produced this past summer by [The Boston Harbor Association](#) (TBHA) as the second volume in its [Preparing for the Rising Tide](#) series, provides an assessment of Boston's vulnerability to rising sea levels and subsequent water damage. It also examines various buildings and cities around the world that have implemented best practices and infrastructure that not only reduce flooding damage, but allow for the community to continue to operate alongside the water, rather than attempt in vain to keep water out. In compiling data for the report, researchers found that five key principles emerged that truly ought to be considered when design renderings are submitted: design for resilience, create double-duty solutions, strengthen community resilience, incentivize and institutionalize preparedness, and phase plans over time. *Designing with Water* provides twelve case studies that describe how cities around the world are making new investments and using design strategies to decrease potential flood damage to

buildings, communities, and infrastructure without losing the vibrancy and livability of the communities. Click [here](#) to download the 73-page report, [here](#) to read the press release, [here](#) for an interview of TBHA's Julie Wormser regarding the report, and [here](#) for info about an [upcoming design competition](#) on this theme. [Click [here](#) for info and [here](#) for the [Notice of Funding Availability](#) (NOFA) for a similar opportunity occurring at the federal-level: the [National Disaster Resilience Competition](#) (NDRC), a two-phase process that will competitively award nearly \$1 billion in HUD Disaster Recovery funds to eligible communities.]



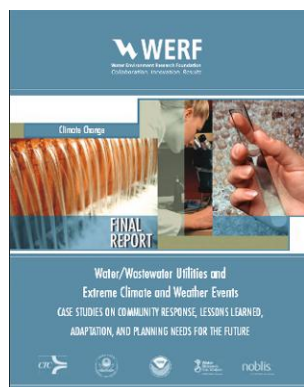
What would it mean to live in cities designed to foster feelings of connectedness to the ocean? As coastal cities begin planning for climate change and rising sea levels, author [Timothy Beatley](#) sees opportunities for rethinking the relationship between urban development and the ocean. Modern society is more dependent upon ocean resources than people are commonly aware of—from oil and gas extraction to wind energy, to the vast amounts of fish harvested globally, to medicinal compounds derived from sea creatures, and more. In his new book [Blue Urbanism: Exploring Connections between Cities and Oceans](#), Beatley argues that, given all we've gained from the sea, city policies, plans, and daily urban life should acknowledge and support a healthy ocean environment. The book explores issues ranging from urban design and land use, to resource extraction and

renewable energy, to educating urbanites about the wonders of marine life. Beatley looks at how emerging practices like “community supported fisheries” and aquaponics can provide a sustainable alternative to industrial fishing practices. Urban citizens, he explains, have many opportunities to interact meaningfully with the ocean, from beach cleanups to helping scientists gather data. Equal parts inspiration and practical advice for urban planners, ocean activists, and policymakers, *Blue Urbanism* offers a comprehensive look at the challenges and great potential for urban areas to integrate ocean health into their policy and planning goals. [Click [here](#) to access the book’s web page, and [here](#) and [here](#) for related info.]



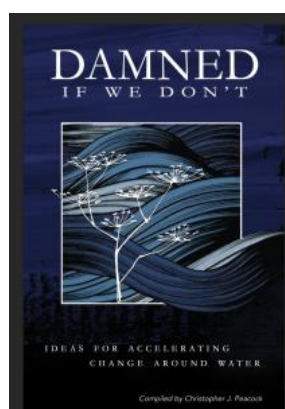
Green infrastructure is a stormwater management approach that uses vegetation and soil to manage rainwater where it falls. Green infrastructure practices include rain gardens, bioswales, and permeable pavements. Well-designed and well maintained green infrastructure can provide community benefits and climate change-related benefits in addition to helping to manage wet weather flows. There are special considerations for planning of infiltration practices at brownfields, however. Care must be taken not to mobilize contaminants in the soil which could increase the risk of groundwater contamination. [\*\*\*Implementing Stormwater Infiltration Practices at Vacant Parcels and Brownfield Sites\*\*\*](#), produced by the EPA in 2013, is intended to help communities, developers, and other stakeholders determine the appropriateness of stormwater infiltration on vacant parcels and brownfield sites. The guide walks decision-makers through a series of questions to determine whether infiltration or other stormwater

management approaches are appropriate for a specific brownfield property. [Click [here](#) to access the slides from a July webinar in which the EPA’s Robert Newport discusses the findings from this report, as well as funding available for these projects and other implementation issues.]



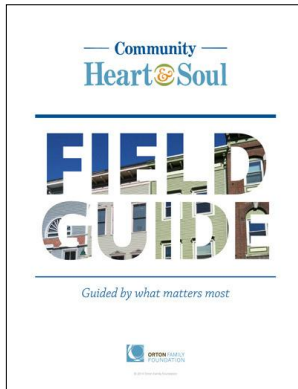
[\*\*\*Water/Wastewater Utilities and Extreme Climate and Weather Events: Case Studies on Community Response, Lessons Learned, Adaptation, and Planning Needs for the Future\*\*\*](#), recently published by the Water Environment Research

Foundation (WERF), examines how water, wastewater, and stormwater utilities - and other local water resource managers - make decisions in response to recent extreme weather events. The report is based on the results of six local workshops, organized to include participants that experienced different types of extreme events throughout a river basin or watershed in various regions of the U.S. The study examines what happened, how information was used to inform decisions, what institutional dynamics helped or hindered, and how water utilities and their communities plan to manage impacts and build resiliency for future extreme events.

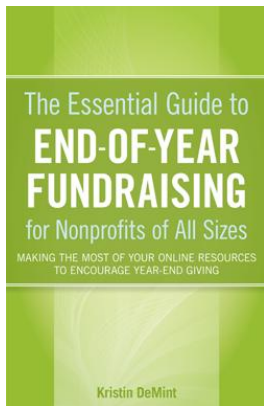


A new anthology, [\*\*\*DAMNED IF WE DON'T: Ideas for Accelerating Change around Water\*\*\*](#), recently released for preorder by [The Water Innovation Project](#), focuses on water-related issues and personal stories from more than 25 different authors who represent a variety of ideas around better managing the industry’s relationship with water. Two pre-release chapters are [already available online](#): “Advancing One Water Management with One Water Communication”, written by Donna Vincent Roa, an internationally-accredited business communicator and a water communication expert; and “Utilize Social Media – Don’t Block It”, written by Todd Danielson (P.E., BCCE), Chief Utilities Executive at Avon Lake Regional Water. The book includes personal anecdotes as well as thought-provoking pieces that could change the industry itself, and will be available for download on the Amazon Kindle platform as well as a paperback version in October. Click [here](#) or contact Christopher Peacock [(916) 245-0560, [Chris@WaterInnovationProject.com](mailto:Chris@WaterInnovationProject.com)] for

more info.



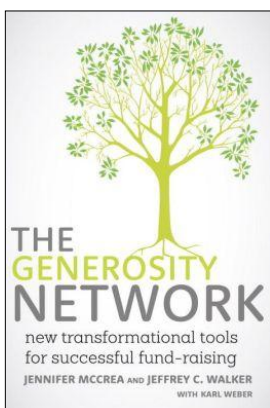
Described by its creator, the [Orton Family Foundation](#), as “a barn-raiser approach to community planning”, the [Community Heart and Soul™](#) process “reconnects people with what they love most about their town and translates those personal and emotional connections into a blueprint that serves as the foundation for future community decisions”. The new [Community Heart & Soul™ Field Guide](#), available for free download, enables you to: reach all demographics in your community by bridging divides and overcoming hurdles; move the conversation out of city hall and into neighborhoods; engage and learn from all kinds of people: youth to working parents to retirees; uncover practical, broadly supported solutions to local problems; discover the power of storytelling to reveal what matters most to residents; identify community values and use them to inform actions; and build strong civic culture to inform decisions over the long haul. Click [here](#) for more info.



Newly updated for 2014, [The Essential Guide to End-of-Year Fundraising for Nonprofits of All Sizes: Making the Most of your Online Resources to Encourage Year-end Giving](#), by Kristin DeMint, and available for [free download](#), “will give you practical advice and effective tips for using online resources to enhance your end-of-year giving campaign. It’s a quick and easy read to help you develop a step-by-step plan to jump-start your year-end fundraising.” You might find this guide useful as you [contemplate a possible participation](#) in [Giving Tuesday, December 2, 2014](#). [Click [here](#) to read a related blog posting by DeMint on this topic. Also by DeMint is [The Essential Guide to Online Advocacy for Nonprofits](#), which helps nonprofits go beyond traditional advocacy techniques to reach more people and more effectively target decision makers.]



“The most exciting evolution of the giving economy in the past ten years, ‘**crowdfunding**’, is simply a new name for one of the oldest forms of fundraising. Throughout history, communities joined together to support those in need. Crowdfunding is the 21st century version of this age-old process for harnessing the power of a crowd. Crowdfunding today sits at the intersection between communities, online, social, and giving. And it is more than just a strategy for one-off projects; it should be a core strategy for annual giving. In [The Nonprofit Crowdfunding Craze](#), available for free download, experts Erin Morgan Gore and Breanna DiGiammarino explain how when ‘used strategically, crowdfunding helps nonprofits build meaningful engagement, inform their work, spread their messages, and expand their donor base to increase their overall funding and impact’.” Click [here](#) to download the guide and for related info.



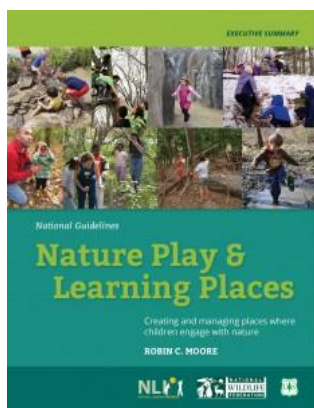
[The Generosity Network: new transformational tools for successful fundraising](#), “is the essential guide to the art of activating resources of every kind behind any worthy cause. Philanthropist Jeff Walker and fund-raising expert Jennifer McCrea offer a fresh new perspective that can make the toughest challenges of nonprofit management and development less stressful, more rewarding—and even fun. Walker and McCrea show how traditional pre-scripted, money-centered, goal-oriented fund-raising techniques lead to anxiety and failure, while open-spirited, curiosity-driven, person-to-person connections lead to discovery, growth—and often amazing results. Through engrossing personal stories, a wealth of innovative suggestions, and inspiring examples, they show nonprofit leaders how to build a community of engaged partners who share a common passion and are eager to provide the resources needed to change the world—not just money, but also time, talents, personal networks, creative thinking, public support, and all the other forms of social capital that often seem scanty yet are really abundant, waiting to be uncovered and mobilized.” Click [here](#) to order the



book or to read an excerpt, and [here](#) to access The Generosity Network's website, with more resources, including [how to plan a "Jeffersonian Dinner"](#).



The 2013 documentary film [A Will for the Woods](#) explores the growing environmental and social movement of [Green Burials](#), a simple and natural alternative to resource-intensive contemporary burial or cremation practices. This film follows Clark Wang, musician, psychiatrist and folk dancer, as he prepares for his own green burial: no embalming, no vault-like coffin – just a grave in an open, protected landscape. Determined that his last act will not harm the environment and may even help protect it, Clark has discovered the movement to further sustainable funerals that conserve natural areas. The documentary visits “green cemeteries” in the U.S., which preserve landscapes and make the conservation of the land in perpetuity a gift of the burial. Click [here](#) to view the *A Will for the Woods* trailer, and [here](#) to learn about upcoming screenings, which include: the [Greenfield Garden Cinema](#) on **Thursday, October 2**, co-sponsored by [Mount Grace Land Conservation Trust](#) and [Green Burial Massachusetts](#); and at the [Boston Museum of Fine Arts](#) on **Saturday, October 11**, where a Q&A with the filmmakers will follow the screening.

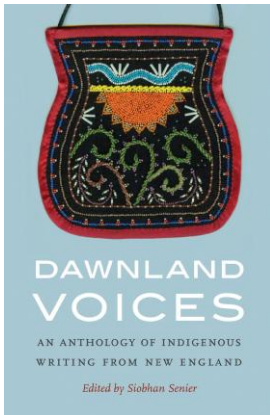


**Parents, educators, conservationists, and recreation professionals are seeking more challenging and creative ways to connect kids with nature and the outdoors.** The recently-published guidebook, [Nature Play and Learning Places](#), is a helpful resource for planning, designing, and managing quality natural play and learning areas. The guidelines draw from principal author [Robin Moore](#)'s extensive landscape design experience, case studies of 12 existing nature play areas across the country, and the contributions from representatives from more than 20 national organizations. Explore the guidelines to learn how to plan, design, and create a place for nature play and learning; to navigate risk and site management challenges; and to see inspirational photos of nature play and learning places from across the country. Click [here](#) to download the *Nature Play* guidelines, [here](#) to access the website, [here](#) to see a related National Wildlife Federation website, and [here](#) to read a press release about these new guidelines.



**What part of nature is most important to us?** This is the question posed to a young Algonkian boy by his grandfather in the area now called Connecticut, but known to them as Quinnnetukut...the place of the long water. Follow along with him and learn the ways of his people as he discovers the answer in the 15-minute film [Quinnnetukut: Life In The Woodlands](#). This short film, based upon the most recent archaeological evidence as well as oral tradition, explores the daily lives and philosophical outlook of the Native

American communities that have lived throughout Connecticut and New England since before the arrival of Europeans on the continent. It's ideal for general enjoyment or for use as a classroom supplement. Produced by the [Institute for American Indian Studies Museum and Research Center](#) (IAIS), *Quinnnetukut: Life in the Woodlands* is [now available on DVD](#). A discussion with Lucianne Lavin, Ph.D., IAIS Director of Research & Collections, is included as a featurette on the DVD, and is also available on the [Museum's Facebook page](#). [Click [here](#) to view the film's trailer.]



The new book [\*Dawnland Voices An Anthology of Indigenous Writing from New England\*](#), edited by [Siobhan Senier](#), “calls attention to the little known but extraordinarily rich literary traditions of New England’s Native Americans. This pathbreaking anthology includes both classic and contemporary literary works from ten New England indigenous nations: the Abenaki, Maliseet, Mi’kmaq, Mohegan, Narragansett, Nipmuc, Passamaquoddy, Penobscot, Schaghticoke, and Wampanoag. Through literary collaboration and recovery, Siobhan Senier and Native tribal historians and scholars have crafted a unique volume covering a variety of genres and historical periods. From the earliest petroglyphs and petitions to contemporary stories and hip-hop poetry, this volume highlights the diversity and strength of New England Native literary traditions. Dawnland Voices introduces readers to the compelling and unique literary heritage in New England, banishing the misconception that ‘real’ Indians and their traditions vanished from that region centuries

ago.”

[> Return to top of document](#)

><(((°>`·,·,·~·,·~·...><(((°>·~·,·,·~·...><(((°>`·,·,·~·,·~·...><(((°>



**NOTE:** The [Mass. Watershed Coalition \(MWC\)](#)’s ["mwc-list" listserv](#), formerly a great source of time-sensitive and other info on river- and watershed-related funding and job opportunities, upcoming events, recent articles and more, is **currently on hiatus** due to changes at its host, [topica.com](#). Past messages posted to the “mwc-list” listserv **are** still accessible, however, and readable by anyone by clicking [here](#). The MWC is currently researching replacements to the listserv platform and should have something in place soon, and when that happens we will let you know. In the meantime, you might want to check out the [MWC’s Runoff Remedies blog](#).



Coordinated by the Mass. Executive Office of Energy and Environmental Affairs (EEA), [The Great Outdoors Blog](#) is dedicated to Massachusetts outdoor activities, events, wildlife, state parks and local agriculture that features a **calendar of Massachusetts outdoor events**. Learn about native marsh species, guides for the state’s best paddling adventures and learn about wetlands restoration projects that protect recreational and commercial fisheries.

**Last but not least:**



The [Massachusetts Environmental Trust \(MET\)](#) provides funding to many river, wetland and other water resources protection and restoration projects throughout the Commonwealth. A major source of MET’s funding comes from the sale of [environmental license plates](#). Besides the “Right Whale and Roseate Tern” plate (click [here](#), see p. 13), sales of the “Fish and Wildlife” plate (click [here](#), see p.12), depicting a Brook Trout, and the Blackstone Valley plates (click [here](#), see p.10) help fund MET’s grant-making programs. (By the way, these three are the only Mass. specialty license plates that exclusively fund environmental programs). Getting an environmental plate is easy and can be done on-line by clicking [here](#), or in person at [your local Registry of Motor Vehicles office](#).

Does [your](#) car have an environmental license plate?

**Division of Ecological Restoration Staff:**

Tim Purinton, *Director*

Hunt Durey, *Deputy Director*

Carrie Banks, *Stream Team and Westfield River Wild and Scenic Committee Coordinator*

Russell Cohen, *Rivers Advocate*

Michelle Craddock, *Flow Restoration Specialist*

Cindy Delpapa, *Stream Ecologist*

Kristen Ferry, *Aquatic Habitat Restoration Specialist*

Eileen Goldberg, *Assistant Director*

Alex Hackman, *Project Manager*

Franz Ingelfinger, *Restoration Ecologist*

Georgeann Keer, *Wetland Scientist and Project Manager*

Beth Lambert, *River Restoration Program Manager*

Laila Parker, *Flow Restoration Program Manager*

Megan Sampson, *Program Administrator*

Nick Wildman, *Priority Projects Coordinator*

\*\*\*\*\*

Commonwealth of Massachusetts

Deval L. Patrick, Governor

Maeve Vallely Bartlett, Secretary, Executive Office of Energy and Environmental Affairs

Mary B. Griffin, Commissioner, Department of Fish and Game

Division of Ecological Restoration (DER)

251 Causeway St. Suite 400

Boston, MA 02114

(617) 626-1540

<http://www.mass.gov/der>



[> Return to top of document](#)